This printed version of the Schedule of Classes is current as of 12/23/24 9:02 AM.

# AAPS Academic Achievement Programs Fall 2024

**AAPS380** **Fearless First: Negotiating the Hidden Curriculum in Higher Education and Other Societal Institutions**

*Restriction: Permission of Academic Achievement Programs.*

*This course examines the research and theory about first-generation college students and complicates the discourse around identity and experiences as a first-generation college student and the efforts made to expand access to higher education and major U. S. institutions. Moreover, the course will encourage students to use their strengths and cultural wealth, assets and values, along with introducing and expanding known cultural and social capital to successfully negotiate these institutional environments. Students who identify as first-generation are strongly encouraged to enroll.*

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| 0101 | Sharon Vanwright<br>W 4:00pm - 5:45pm<br>Class time/details on ELMs | Seats (Total: 25)<br>TLF 0110<br>ONLINE |

# AASP African American Studies Fall 2024

**AASP100** **Introduction to African American Studies**

*Significant aspects of the history of African Americans with particular emphasis on the evolution and development of black communities from slavery to the present. Interdisciplinary introduction to social, political, legal and economic roots of contemporary problems faced by blacks in the United States with applications to the lives of other racial and ethnic minorities in the Americas and in other societies.*

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|---|---|---|
| 0101 | Shane Walsh<br>MWF 10:00am - 10:50am | Seats (Total: 35)<br>WDS 1114 |
| 0201 | Shane Walsh<br>MWF 12:00pm - 12:50pm | Seats (Total: 35)<br>SYM 0215 |
| 0301 | Shane Walsh<br>MWF 2:00pm - 2:50pm | Seats (Total: 35)<br>SQH 1103 |
| 0401 | Jason Nichols<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>VMH 1203 |
| 0501 | Jason Nichols<br>TuTh 11:00am - 12:15pm | Seats (Total: 35)<br>SKN 1115 |
| 0601 | George Kintiba<br>TuTh 2:00pm - 3:15pm | Seats (Total: 35)<br>KEY 0102 |

**AASP100H** **Introduction to African American Studies**

*Significant aspects of the history of African Americans with particular emphasis on the evolution and development of black communities from slavery to the present. Interdisciplinary introduction to social, political, legal and economic roots of contemporary problems faced by blacks in the United States with applications to the lives of other racial and ethnic minorities in the Americas and in other societies.*

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| 0101 | Jason Nichols | Seats (Total: 5) |
| | TuTh 12:30pm - 1:45pm | VMH 1203 |

**AASP101** **Public Policy and the Black Community**

*Formerly: AASP300.*

*The impact of public policies on the black community and the role of the policy process in affecting the social, economic and political well-being of minorities. Particular attention given to the post-1960 to present era.*

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| 0101 | Chinyere Osuji | Seats (Total: 37) |
| | TuTh 11:00am - 12:15pm | ONLINE |

**AASP187** **The New Jim Crow: African-Americans, Mass Incarceration and the Prison Industrial Complex**

*Recommended: AASP100.*

*Students will examine the birth of the racial caste system following the abolition of slavery, the parallels between the racial hierarchy of the Jim Crow system and contemporary mass incarceration, and the rise of the prison industrial complex as a multi-billon business which thrives on the oppression of low-income populations and poor communities of color.*

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| 0101 | Joseph Richardson | Seats (Total: 25) |
| | W 3:00pm - 5:30pm | SQH 1111 |

**AASP200** **African Civilization**

*A survey of African civilizations from 4500 B.C. to present. Analysis of traditional social systems. Discussion of the impact of European colonization on these civilizations. Analysis of the influence of traditional African social systems on modern African institutions as well as discussion of contemporary processes of Africanization.*

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| 0101 | George Kintiba | Seats (Total: 40) |
| | TuTh 3:30pm - 4:45pm | TYD 0111 |

**AASP202** **Black Culture in the United States**

*The course examines important aspects of African American life and thought which are reflected in African American literature, drama, music and art. Beginning with the cultural heritage of slavery, the course surveys the changing modes of black creative expression from the 19th-century to the present.*

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| 0101 | Robert Choflet<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 30)<br>TLF 1103<br>ONLINE |
| 0102 | Robert Choflet<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 35)<br>WDS 1114<br>ONLINE |
| 0103 | Angelica Dunbar<br>TuTh 11:00am - 12:15pm | Seats (Total: 32)<br>KEY 0125 |
| 0104 | Elizabeth Alexander<br>TuTh 2:00pm - 3:15pm | Seats (Total: 35)<br>TYD 0111 |

**AASP210** **Intro to Research Design and Analysis in African American Studies**

*Introduces students to quantitative and qualitative research methods used in social science with a focus on Black populations and African American Studies Research. Uses practical exercises, such as class surveys and mock focus groups, to examine fundamental concepts of the research process from conceptualization of research questions to interpretation of data and research articles. The course is designed for undergraduate students with little or no background knowledge in social science research methods.*

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| 0101 | Angelica Dunbar<br>TuTh 9:30am - 10:45am | Seats (Total: 25)<br>JMZ 0120 |

**AASP211** **Get Out: The Sunken Place of Race Relations in the Post-Racial Era**

*Credit only granted for: AASP298G or AASP211. Formerly: AASP298G.*

*Prevailing thought suggests that we live in an era that is post-racial, particularly after the election of Barack Obama. Media often serves to drive our assessment of where our nation stands on issues like race, gender and sexuality. This course uses the film Get Out to delve into the production, evolution and significance of race in present day America. The course will engage multiple forms of media to investigate life in "Post-Racial" America, including but not limited to the role of stereotypes, interracial relationships, police-community relations, etc.*

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| 0101 | Jason Nichols<br>W 4:00pm - 6:30pm | Seats (Total: 30)<br>BPS 1236 |

**AASP230** **Social (In)Justice and African-American Health and Well-Being**

*African Americans suffer worse outcomes than non-Hispanic whites on nearly every health measure and outcomes that link to overall well-being like depressive symptoms or homicides. Health disparities are experienced by other underrepresented minority groups, but because of the unique historic and current experiences of African Americans, the determinants and solutions to African American health disparities are unique. The premise of this course is that African American health disparities are due to social injustices perpetuated on the institutional level that have permeated the lived experiences of African Americans leading to racial disparities in health and well-being. As such, the solutions on the both policy, and community, level must have a social justice approach.*

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| 0101 | Ashley Newby | Seats (Total: 60) |
| | MW 11:00am - 11:50am<br>Class time/details on ELMs | SQH 1119<br>ONLINE |

**AASP298C** **African-American History to 1865**

*Cross-listed with: AAAS254. Credit only granted for: HIST254, AAAS254 or AASP298C.*

*Survey of the principal developments in the history and culture of the peoples of African descent in colonial North America and the United States to 1865. Examines the African past, the Atlantic slave trade, variation in slavery, the growth of free black communities, the transformations of families and cultural forms, and patterns of resistance.*

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| 0101 | Christopher Bonner | Seats (Total: 40) |
| | TuTh 12:30pm - 1:45pm | KEY 0116 |

**AASP298L** **African-American Literature and Culture**

*Cross-listed with: AAAS234. Credit only granted for: ENGL234, AAAS234 or AASP298L.*

*An exploration of the stories black authors tell about themselves, their communities, and the nation as informed by time and place, gender, sexuality, and class. African American perspective themes such as art, childhood, sexuality, marriage, alienation and mortality, as well as representations of slavery, Reconstruction, racial violence and the Nadir, legalized racism and segregation, black patriotism and black ex-patriots, the optimism of integration, and the prospects of a post-racial America.*

Cross-listed with ENGL234. Credit granted for AASP298L or ENGL234.

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| 0201 | Timmy Bridgeman | Seats (Total: 30) |
| | MWF 12:00pm - 12:50pm | TWS 0234 |

**AASP301** **Applied Policy Analysis and the Black Community**

*Prerequisite: AASP101. Recommended: Completion of one semester of statistics is recommended.*

*Development and application of the tools needed for examining the effectiveness of alternative policy options confronting minority communities. Review policy research methods used in forming and evaluating policies. Examination of the policy process.*

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| 0101 | Ricco Hall<br>Tu 4:00pm - 6:30pm | Seats (Total: 25)<br>HBK 0125 |

**AASP310** **African Slave Trade**

*Prerequisite: AASP202 or AASP100; or permission of BSOS-African American Studies department. Formerly: AASP311.*

*The relationship of the slave trade of Africans to the development of British capitalism and its industrial revolution; and to the economic and social development of the Americas.*

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| 0101 | George Kintiba<br>TuTh 9:30am - 10:45am | Seats (Total: 20)<br>WDS 1114 |

**AASP340** **Black Existentialism**

*Credit only granted for: AASP340, ENGL368O, PHIL338E, or PHPE308C .*

*Examines the critical transformation of European existentialist ideas through close readings of black existentialists Aime Cesaire, Frantz Fanon, George Lamming, and Wilson Harris, paired with key essays from Sartre, Camus, and Merleau-Ponty. As well, we will engage black existentialism not just as a series of claims, but also a method, which allows us to read works by African- American writers such as W.E.B. Du Bois, James Baldwin, and Ralph Ellison in an existentialist frame. Lastly, we will consider the matter of how and why existentialism continues to function so centrally in contemporary Africana philosophy.*

Cross-listed with ENGL368O, PHIL338E, and PHPE308C. Credit only granted for ENGL368O, AASP340, PHIL338E, or PHPE308C.

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| 0101 | John Drabinski<br>TuTh 11:00am - 12:15pm | Seats (Total: 25)<br>TWS 1106 |

**AASP361** **Caribbean Women**

*Cross-listed with: AAAS361. Credit only granted for: WGSS360, WMST360, AAAS361 or AASP361. Formerly: WMST360.*

*An interdisciplinary analysis of the lives and experiences of women across the Caribbean region, through an examination of their roles in individual, national, social and cultural formations. Special emphasis on contemporary women's issues and organizations.*

Additionally for Fall 2024: Cross-listed with WGSS360 and LACS348P. Credit only granted for WGSS360, AASP361, or LACS348P.

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| 0101 | Michelle Rowley<br>MW 10:00am - 11:15am | Seats (Total: 35)<br>SQH 1105 |

**AASP386** **Experiential Learning**

(Perm req)

*Restriction: Permission of BSOS-African American Studies department; and junior standing or higher.*

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| 0101 | Marshal Washington<br>F 2:00pm - 4:30pm | Seats (Total: 10)<br>TLF 1102 |

**AASP397** **Senior Thesis**

(Perm req)

*Restriction: Permission of BSOS-African American Studies department.*

*Directed research in African American Studies resulting in the completion and defense of a senior thesis.*

**Contact department for information to register for this course.**

**AASP398B** **Selected Topics in the African Diaspora; Black Immigrants: Challenges and Impacts**

*Analysis of the historical experiences and cultures of Africans in the diaspora.*

Cross-listed with IMMR319D. Credit only granted for AASP398B or IMMR319D. How does immigration affect Black communities in the United States? How are foreign Black affected by living in the United States? Students will learn about: US history of immigration policy; pull and push factors driving Black migration; comparisons in socioeconomic outcomes between foreign and native Blacks; and differences between 1st and 2nd generation Black immigrants.

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| 0101 | Chinyere Osuji<br>MW 3:00pm - 4:15pm | Seats (Total: 25)<br>ONLINE |

**AASP398J** **Selected Topics in the African Diaspora; Black Women in Twentieth Century America**

*Analysis of the historical experiences and cultures of Africans in the diaspora.*

Cross-listed with HIST319X, WGSS379J, and AMST498D. Credit only granted for HIST319X, WGSS379J, AMST498D, or AASP398J. Traces twentieth-century United States history from the perspective of Black women. We will center their diverse voices and experiences as we explore themes including family, work, activism, and cultural expression.

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| 0101 | Leigh Soares<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>TYD 1118 |

**AASP398N** **Selected Topics in the African Diaspora; Race, Health and Narrative**

*Analysis of the historical experiences and cultures of Africans in the diaspora.*

Cross-listed with ENGL368N. Credit only granted with ENGL368N or AASP398N.

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| 0101 | Dennis Winston<br>TuTh 9:30am - 10:45am | Seats (Total: 25)<br>TWS 1105 |

**AASP398Q** **Selected Topics in the African Diaspora; Black Baltimore in the Post Racial U.S: African American Urban Culture in the Age of Obama**

*Analysis of the historical experiences and cultures of Africans in the diaspora.*

Cross-listed with AMST328M. Credit only granted for AASP398Q or AMST328M. Using the city of Baltimore as our case study and taking an interdisciplinary approach that draws from the scholarly fields of African American studies, sociology, geography, anthropology, history, and urban planning this course explores how both Blackness and anti-Blackness shape the city, its histories, its racial and cultural geography, its social movements, its political economy, and the competing visions for its future. This is an interactive course that will work to develop students capacity to understand and discuss major and minor moments in the history of Black Baltimore; understand and discuss the relationship between material conditions, racism, and urban policy; develop interdisciplinary frameworks through which to interpret and analyze the contemporary and historical conditions shaping the lived experiences of Black Baltimoreans; and analyze scholarship produced within the African American Studies tradition.

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| 0101 | Robert Choflet | Seats (Total: 30) |
| | W 3:00pm - 5:30pm | BPS 1232 |

**AASP398U** **Selected Topics in the African Diaspora; Angela Davis**

*Analysis of the historical experiences and cultures of Africans in the diaspora.*

Cross-listed with AMST328B, ENGL368F, and WGSS379U. Credit only granted for AASP398U, AMST328B, ENGL368F, and WGSS379U. This course explores the meaning and significance of Angela Davis work for thinking through issues of race, nation, class, gender, carceral culture, and transnational solidarity. Her life and work is set between theorizing histories of race, racism, class, and gender and political organizing and public intellectual work. We will examine all of these aspects by reading her work from its beginning and up through contemporary commentary on incarceration, Palestine, and related issues. The centerpiece of this course will be her study of African-American music in its Black feminist iteration, Blues Legacies and Black Feminism.

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| 0101 | John Drabinski | Seats (Total: 25) |
| | TuTh 9:30am - 10:45am | TLF 0110 |

**AASP399** **Research in African-American Studies**

(Perm req)

*African American Studies research labs are the settings in which the most recent scholarly work of each faculty member takes place with the enterprise of conducting and disseminating research. Faculty members operate as the team leader and faculty mentor working with undergraduate students around a specific research topic or project. Students will have the opportunity to assist with reviewing literature, data gathering, data management, coding analysis, and the preparation of conference presentations and scholarly publications while advancing their own scholarship and interests, cultivating integrative skills, and gain training in a specialized aspect of the African American Studies discipline, which may not be otherwise available from other experiences on campus.*

**Contact department for information to register for this course.**

**AASP478E** **Humanities Topics in African American Studies; Black Digitalities**

*Advanced studies in the humanities, often requiring prerequisites, focusing on the literary, artistic and philosophical contributions of Africans and African Americans.*

Cross-listed with ENGL438B. Credit only granted for ENGL438B or AASP478E. In investigating a broad range of materials: essays, literature, film, VR, and video games, this class in digital study and practice explores the long history of Black Atlantic engagement with digital techniques and modalities. Over the course of the semester students will engage a variety of hands on experiences, creating or conceptualizing digital objects as entry points into learning how to read digital experiences from both cultural and computational perspectives. Writing assignments will especially focus on how play and interactivity impact narrative and representation. By combining close reading practice with digital treatments of canonical African American texts, this class will help students historicize important cross-fertilizations between Black expressive traditions and a range of contemporary media.

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| 0101 | Marisa Parham<br>M 3:30pm - 6:00pm | Seats (Total: 20)<br>TWS 1320 |

**AASP478G** **Humanities Topics in African American Studies; Plants & Diaspora: Black and Indigenous Environmental History**

*Advanced studies in the humanities, often requiring prerequisites, focusing on the literary, artistic and philosophical contributions of Africans and African Americans.*

Cross-listed with HIST419O. Credit only granted for HIST419O or AASP478G. Reading seminar investigating the African Diaspora in the Americas through several plants, such as mangroves, sesame, rice, oil palm, coconut palm, cassava, and peanuts. Students analyze environmental histories of slavery, colonialism, and rebellion and explore how Black and Indigenous experiences shaped landscapes of extraction, freedom, and justice.

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| 0101 | Jayson Porter<br>M 2:00pm - 4:30pm | Seats (Total: 15)<br>TLF 2100 |

**AASP479** **Special Research in African-American Studies**

*Supervised research activity within the African American Studies Department. This course is for both majors and non-majors who seek to work for a faculty member on their research project(s) and/or work in their research lab as a Research Assistant (RA). The purpose of this course is to expose undergraduate students to theories and methods used to understand the lives and experiences of Black people across the diaspora via hands-on/applied research experience. A faculty member must agree to supervise your research activity before students can enroll for course credit.*

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| 0101 | Oscar Barbarin<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0201 | Robert Choflet<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0301 | John Drabinski<br>Contact instructor or department for details. | Seats (Total: 5) |

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| 0401 | Angelica Dunbar<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0501 | Cecily Jackson<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0601 | Sharon Harley<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0701 | George Kintiba<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0801 | Sangeetha Madhavan<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0901 | Ashley Newby<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1001 | Jason Nichols<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1101 | Chinyere Osuji<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1201 | Periloux Peay<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1301 | Joseph Richardson<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1401 | Shane Walsh<br>Contact instructor or department for details. | Seats (Total: 5) |

**AASP499L** **Advanced Topics in Public Policy and the Black Community; Covering Social Justice**

*Examination of specific areas of policy development and evaluation in black and other communities. Application of advanced tools of policy analysis, especially quantitative, statistical and micro-economic analysis.*

Cross-listed with JOUR458J. Credit only granted for: JOUR458J or AASP499L. The objective of this class is to expose students to the best journalistic practices in covering race and social justice issues. Students will explore how social justice is covered in the media through readings, discussions, guest lectures and research assignments to help students understand the history and background of social justice and how reporters cover these issues. Students will develop critical analytical skills through their research and will write a reported essay about a national or international social justice issue impacting society.

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| 0101 | Deneen Brown<br>M 3:00pm - 5:45pm | Seats (Total: 18)<br>KNI 3202 |

**AASP499N** **Advanced Topics in Public Policy and the Black Community; News Coverage of Racial Issues**

*Examination of specific areas of policy development and evaluation in black and other communities. Application of advanced tools of policy analysis, especially quantitative, statistical and micro-economic analysis.*

Restriction: Junior standing or higher.

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| 0101 | Anne Rosen<br>TuTh 9:30am - 10:45am | Seats (Total: 25)<br>KNI 3202 |

# AAST Asian American Studies Fall 2024

**AAST200** **Introduction to Asian American Studies**

*Cross-listed with: AMST298C. Credit only granted for: AAST200 or AMST298C.*

*The aggregate experience of Asian Pacific Americans, from developments in the countries of origin to their contemporary issues. The histories of Asian Pacific American groups as well as culture, politics, the media, and stereotypes, viewed from an interdisciplinary perspective.*

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| 0101 | Julie Park<br>TuTh 2:00pm - 3:15pm | Seats (Total: 40)<br>SQH 1105 |
| 0201 | Jennifer Cho<br>TuTh 9:30am - 10:45am | Seats (Total: 40)<br>TWS 0223 |

**AAST201** **Asian American History**

*Cross-listed with: HIST221. Credit only granted for: AAST201 or HIST221.*

*Introduction to the history of Asian Americans and Asians in the United States and the Americas and to the field of Asian American Studies, from an interdisciplinary perspective. Topics include theories of race and ethnicity; Asian migration and diaspora to the Americas; Asian American work and labor issues; gender, family, and communities; nationalism and nativism, and anti-Asian movements; Asian Americans in World War II, the Cold War, and the issues in the civil rights & post-civil rights era.*

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| 0101 | Madeline Hsu<br>TuTh 9:30am - 10:45am | Seats (Total: 40)<br>KEY 0126 |

**AAST262** **Asian American Psychology**

*Cross-listed with: PSYC262. Credit only granted for: PSYC262, AAST262 or PSYC489Z. Formerly: PSYC489Z.*

*An overview of how socio-cultural influences impact the development and psychological health of Asian Americans. Other topics include how minority group status, adaptation and identity development influence various aspects of psychological functioning; the role of historic systematic racism; and, how the COVID-19 pandemic has negatively impacted Asian Americans. Students develop a deeper understanding of the role of stereotypes and racism, acculturation, racial identity development, cultural values, gender socialization, behavioral norms, family roles, stressors and social support systems on the mental health, well-being and health of Asian Americans.*

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| 0101 | Derek Iwamoto | Seats (Total: 60) |
| | TuTh 12:30pm - 1:45pm | CHE 2108 |

**AAST351** **Asian Americans and Media**

*Credit only granted for: AAST351, AAST398M or AAST398N. Formerly: AAST398M, AAST398N.*

*From yellow peril invaders to model minority allies, Asian Americans have crafted their own dynamic cultural expressions in a number of media from film, television, and music to fashion, sports, and food that reveal and contest the contradictions of the U.S. nation-state. Asian American culture also uniquely sits at the nexus of immigration flows and digital technologies, providing a transnational lens to view the US place in the world. This advanced course, then, will introduce students to the study and practice of Asian American cyktyre as multiple , hybrid, and heterogeneous. It will do so through three sections: section one will introduce students to classical, cultural, and media concepts as well as relevant keywords outlined by Asian American Studies scholars; section two will review the work of Asian American cultural theorists; section three will focus on analyses of particular Asian American cultural productions. In doing so, students will gain an understanding of the shifting and interlocking tensions among the local, the national, and the global that form the cultural geographies of Asian America.*

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| 0101 | Binod Paudyal | Seats (Total: 40) |
| | TuTh 11:00am - 12:15pm | ASY 3203 |

**AAST355** **Asian Americans in Film**

*Cross-listed with: AMST328W. Credit only granted for: AAST355, AAST398L or AMST328W. Formerly: 398L.*

*Explores how Asian Americans have historically been represented in the U.S. by Hollywood, and in turn, how independent and Hollywood Asian American filmmakers have represented themselves. It covers the history of racial, gendered, and sexualized representations of Asian Americans in Hollywood, as well as Asian American filmic responses within and outside Hollywood. It also introduces how four basic tools of film analysis mise-en-scene, cinematography, editing and sound work together to create meaning in moving images. It examines how these elements are put together in three different types of films by Asian American filmmakers: narrative, documentary, and experimental. How films function in society to circulate ideas that reproduce and challenge stereotypes about Asian Americans.*

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| 0101 | Jennifer Cho | Seats (Total: 30) |
| | TuTh 2:00pm - 3:15pm | TWS 1107 |

**AAST363** **Filipino American History and Biography**

*Cross-listed with: AMST323. Credit only granted for: AAST363, AMST323, AAST398D, or AMST328J. Formerly: AAST398D.*

*Focus is placed on Filipino American experiences with an emphasis on identity, community building and organizing to influence public policy We will cover pertinent events from the US and Philippine history in order to understand the impact of colonialism, migration, immigration and assimilation on Filipino Americans.*

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| 0101 | Gemirald Daus<br>Tu 5:00pm - 7:30pm | Seats (Total: 35)<br>ASY 3207 |

**AAST378** **Experiential Learning**

(Perm req)

*Field experience/internship in professional organizations and appropriate private and governmental agencies serving the Asian American community.*

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| 0101 | Janelle Wong<br>Contact instructor or department for details. | Seats (Total: 5) |

**AAST388** **Independent Research**

(Perm req)

*Directed, independent study in Asian American Studies resulting in the completion of an original research paper.*

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| 0101 | Janelle Wong<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0201 | Binod Paudyal<br>Contact instructor or department for details. | Seats (Total: 2) |
| 0301 | Julie Park<br>Contact instructor or department for details. | Seats (Total: 2) |
| 0401 | Jennifer Cho<br>Contact instructor or department for details. | Seats (Total: 2) |
| 0501 | Joan Hong<br>Contact instructor or department for details. | Seats (Total: 2) |

**AAST394** **Growing Up Asian American: The Asian Immigrant Family and the Second Generation**

*Cross-listed with: AMST324, IMMR394. Credit only granted for: AAST394, AAST398E, AMST324, AMST328V, IMMR319G or IMMR394. Formerly: AAST398E.*

*An interdisciplinary course examines the experiences of children of Asian immigrants in the U.S., focusing on intergenerational dynamics in the Asian immigrant family, their intersections with race, gender, class, sexuality, and religion, and how these shape second-generation Asian American life. Topics include identity and personhood, the model minority myth and education, work and leisure, language and communication, filiality and disownment, mental health and suicide.*

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| 0101 | Joan Hong | Seats (Total: 30) |
| | TuTh 12:30pm - 1:45pm | HBK 1108 |

**AAST422** **Asian American Women and Gender**

*Credit only granted for: AAST498G or AAST422. Formerly: AAST498G.*

*Examines Asian/American cultural production along with theories of gender and sexuality in the field of Asian American Studies. We consider how Asian American femininities/masculinities are conceived and circulated, drawing from a diverse selection of twentieth-century and contemporary texts, films and images that connect Asian American bodies to ideas of absence, danger, inscrutability, hyper- or hypo-sexuality, and virulence. Beginning with early to mid-twentieth century representations, the course attends to theories that clarify the contested relationship between the East/West and Asia/U.S. Also examined are the methods through which bodies differentiated by sex, gender, and race are managed, surveilled, and rehabilitated, with close attention to the enduring legacies of American expansionism and conquest, anti-immigration policies in the U.S., and twentieth-century wars and occupations in Asia. The course engages Women of Color feminisms, queer theory, and disability studies.*

Cross-listed with WGSS498I. For Fall 2024, credit only granted for AAST498G, AAST422, or WGSS498I.

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| 0101 | Jennifer Cho | Seats (Total: 20) |
| | TuTh 11:00am - 12:15pm | TWS 0201 |

**AAST440** **South Asian American Literature and Culture**

*Credit only granted for: AAST440 or AAST498W. Formerly: AAST498W.*

*Examines writing by South Asian American authors and authors writing about South Asian American issues. It explores major South Asian diaspora themes, considering how migration, war, the events of 9/11, global capitalism, and the changing socio-political and racial scene have affected South Asians in the United States. We will use a transnational approach to consider how writers and filmmakers explore gender, class, religious, caste, and other differences amongst South Asian Americans. We will also examine the place of South Asian Americans in relation to other Asian American populations. We will consider how South Asian American texts disrupt traditional literary classifications based on national identities by reflecting the complex global conditions, imperialistic and capitalistic expansion, and interconnectedness of peoples, nations, and cultures that have transformed American literature and conceptions of American identity.*

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| 0101 | Binod Paudyal | Seats (Total: 20) |
| | TuTh 2:00pm - 3:15pm | JMZ 1120 |

**AAST443** **Asian American Politics**

*Cross-listed with: AMST498J, GVPT368C. Credit only granted for: AAST498T, AAST443, GVPT368C or AMST 498J. Formerly: AAST498T.*

*Students will gain a greater understanding of 1) the role of Asian Americans in US politics, 2) the political attitudes and behaviors of Asian Americans and 3) how to conduct research on Asian American politics. Though the class will concentrate on Asian Americans, issues related to Asian American politics will be examined within the larger context of America's multicultural political landscape.*

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|---|---|---|
| 0101 | Janelle Wong | Seats (Total: 30) |
| | MW 2:00pm - 3:15pm | PLS 1117 |

**AAST498T** **Advanced Topics in Asian American Studies; Fresh Pages: Asian American Creative Voices Workshop**

*Advanced study of the cultural and historical antecedents of contemporary Asian American society. Emphasis on the social, political, economic, and behavioral factors affecting Asian Americans and their communities.*

Is there a particular way to tell an Asian American story? Do our lived experiences as Asian Americans affect the kinds of stories we tell? In this workshop, we will explore how different Asian American writers have tried to tell their stories and develop our own voices. Focusing on the process rather than the product, the primary goal is to help you discover the vast possibilities open to you through your writing and practice craft. Of course, you will gain invaluable feedback from fellow classmates through writing workshops, which will be structured to be rigorous and nurturing, providing you constructive critique. This class is open to anyone who is passionate about exploring narrative techniques, writing their own stories, and looking to develop a keener editorial eye for their own work. Students enrolled in this course will be expected to serve on the editorial team of Fresh Pages Journal: reviewing manuscripts, offering feedback, and assisting with the editorial process.

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| 0101 | Binod Paudyal | Seats (Total: 20) |
| | Tu 3:30pm - 6:00pm | Location: TBA |

# ABRM Anti-Black Racism Fall 2024

**ABRM330** **Introduction to Anti-Black Racism**

*Additional information: This interdisciplinary course will consist of two-week modules from key faculty/scholars in College of Behavioral and Social Sciences, College of Arts and Humanities, School of Public Health, School of Public Policy, and College of Education to explore how anti-Black racism operates in society.*

*This interdisciplinary course seeks to provide a broad overview of this rich and dynamic history. Built around the expertise of top UMD faculty in five colleges, this course will introduce students to the history and legacy of anti-Black racism from the perspective of multiple disciplines. In this course you will examine the development, spread, and articulations of anti-Black racism in the United States.*

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| 0101 | Rashawn Ray, Jeanette Snider | Seats (Total: 35) |
| | TuTh 11:00am - 12:15pm | ASY 1213 |

# AGNR Agriculture and Natural Resources Fall 2024

**AGNR200** **AGNR 2+2 Program Extended Orientation Seminar**

*Prerequisite: Must be a first semester international student enrolled in the AGNR 2+2 Program. Restriction: Must be a first year international student enrolled in the College of Agriculture and Natural Resources 2+2 Program. Additional information: It is strongly recommended that AGNR 2+2 students take AGNR 200 during the first semester at the University. One class meeting per week. This courses is initiated by International Programs and will be coordinated in conjunction with the College of AGNR.*

*Introduces AGNR 2+2 students to University and "American" life. Assists with their successful transition to the College and Agriculture and Natural Resources and the University of Maryland. Helps students to understand their place in AGNR at to learn about the resources available to them.*

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|---|---|---|
| 0101 | Ann Leger | Seats (Total: 25) |
| | M 4:00pm - 5:00pm | Location: TBA |

**AGNR301** **Sustainability**

*Cross-listed with: PLCY301. Credit only granted for: AGNR301, PUAF301, or PLCY301. Formerly: PUAF301.*

*Designed for students whose academic majors would be enhanced by the complementary study of a widely shared but hard-to-operationalize aspiration: that present choices should preserve or improve future options rather than foreclose or degrade them. How should we understand sustainability? How might we achieve it? How would we know if we had achieved it? And how could sustainability activists of a rising generation lead by example?*

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| 0101 | Caroline Boules | Seats (Total: 165) |
| | TuTh 12:30pm - 1:45pm | MMH 1400 |

**AGNR388** **Honors Thesis Research**

(Perm req)

*Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.*

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| 0101 | Joseph Sullivan | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**AGNR499** **Special Problems; Special Problems**

(Perm req)

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|---|---|---|
| 0102 | Joseph Sullivan | Seats (Total: 1) |
| | Contact instructor or department for details. | |

# AGST Agricultural Science and Technology Fall 2024

**AGST130** **Did Yeast Create Civilization?**

*Recommended: CHEM103, CHEM131, CHEM135, or CHEM146. Cross-listed with: PLSC130. Credit only granted for: AGST130 or PLSC130.*

*Did yeast create civilization? Fermented foods have played a major role in the transition from nomadic to settled agrarian societies, the establishment of social and religious customs, the expansion of empires, and modern economies. To what extent are our past and current attitudes towards fermented foods rooted in historical and cultural imprints? Explore the central role of fermentation in human history and culture, the basic microbiological processes underlying fermentation processes, and the processes used to produce and distribute fermented foods. Find out how the fruits, grains, and dairy products used to produce fermented foods are grown and selected. Students will learn about the development and modern use of fermented dairy products, pickles, bread, tea, chocolate, wine, beer, distilled liquors, and pharmaceutical/manufactured products.*

This course is not hands-on and does not teach how to ferment food.

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| 0101 | Wendy Peer | Seats (Total: 30) |
| | Class time/details on ELMs | ONLINE |
| 0102 | Wendy Peer | Seats (Total: 2) |
| | Class time/details on ELMs | ONLINE |
| | *For Fermentation Science (01131) Majors only.* | |

**AGST333** **Crafty Beverage Crops**

*Recommended: PLSC110 or PLSC112; or 1 course in BSCI, BCHM, BIOL.*

*From soda to wine, a scientific introduction to "crafty beverage crops". Students will expand their horticulture knowledge and gain an appreciation for craft beverages and the plants that made them. Topics include history, biology, production and management techniques, harvest, storage and market potential for crafty beverage crops.*

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| 0101 | Diana Cochran | Seats (Total: 60) |
| | Tu 3:30pm - 4:45pm | ONLINE |
| | Class time/details on ELMs | ONLINE |

**AGST426** **Scientists Teaching and Translating Science**

*Credit only granted for: AGST426 or PLSC489L. Formerly: PLSC489L.*

*Explore methods in pedagogy, andragogy, and heutagogy to facilitate science learning through the development of a teaching philosophy, outreach teaching skills, motivation in learning, assessment foundations, and review of current literature on instruction in science fields.*

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| 0101 | Melissa Welsh | Seats (Total: 24) |
| | W 10:00am - 11:50am | PLS 2137 |
| | Class time/details on ELMs | ONLINE |

**AGST440** **Exploring Maryland Agriculture, Agricultural Industry, and Agricultural Literacy**

*Explore the mission and history of the Land Grant System as well as current work conducted through the University of Maryland to extend research to citizens. Often referred to as America in miniature, Maryland boasts diverse people, agricultural practices, cultures, and ecosystems which students will examine to perceive the decision making processes within and across ecological systems as well as the development of advisory boards.*

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|---|---|---|
| 0101 | Melissa Welsh | Seats (Total: 24) |
| | MW 3:30pm - 5:00pm | PLS 2137 |

**AGST499** **Independent Studies in Agricultural Science and Technology**

(Perm req)

*An inquiry based learning course with individualized projects designed by student and faculty focused on: research or advanced learning experiences in Agricultural Science and Technology including field, greenhouse, laboratory, educational site, travel abroad and/or library studies. Conducted under the direction of a faculty member.*

**Contact department for information to register for this course.**

**AGST640** **Analysis of Maryland Agriculture**

*An advanced research focused course on examining the mission and history of the Land Grant System as well as appraising the current work conducted through the University of Maryland Extension to extend research to citizens. Often referred to as America in miniature, Maryland boasts diverse people, agricultural practices, cultures, and ecosystems which students will examine to perceive the decision making processes within and across ecological systems. An enriching field practicum with an agricultural agency is required.*

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|---|---|---|
| 0101 | Melissa Welsh | Seats (Total: 30) |
| | Class time/details on ELMs | ONLINE |

**AGST699** **Independent Studies in Agricultural Science and Technology**

(Perm req)

*An inquiry based learning course with individualized advanced projects designed by graduate student and faculty focused on: research projects in Agricultural Science and Technology including field, greenhouse, laboratory, educational site, travel abroad and/or library studies. Conducted under the direction of a faculty member.*

**Contact department for information to register for this course.**

**AGST799** **Master's Thesis Research**

(Perm req)

*Development of a terminal thesis on a problem in extension education, designed to demonstrate comprehensive skills and knowledge achieved in the graduate program. The subject will be selected in consultation with an advisor and periodically reviewed with a committee headed by the advisor.*

**Contact department for information to register for this course.**

# AMSC Applied Mathematics & Scientific Computation — Fall 2024

**AMSC460** **Computational Methods**

(Perm req)

*Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461); and 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (CMSC106, CMSC131); and minimum grade of C- in MATH246. Cross-listed with: CMSC460. Credit only granted for: AMSC460, AMSC466, CMSC460, or CMSC466.*

*Basic computational methods for interpolation, least squares, approximation, numerical quadrature, numerical solution of polynomial and transcendental equations, systems of linear equations and initial value problems for ordinary differential equations. Emphasis on methods and their computational properties rather than their analytic aspects. Intended primarily for students in the physical and engineering sciences.*

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| 0101 | Tobias von Petersdorff<br>MWF 1:00pm - 1:50pm | Seats (Total: 33)<br>MTH 0304 |
| 0201 | Deep Ray<br>TuTh 9:30am - 10:45am | Seats (Total: 33)<br>MTH 0305 |
| 0301 | Haizhao Yang<br>TuTh 12:30pm - 1:45pm | Seats (Total: 33)<br>MTH 0103 |
| 0401 | Howard Elman<br>TuTh 2:00pm - 3:15pm | Seats (Total: 33)<br>CSI 1121 |

**AMSC466** **Introduction to Numerical Analysis I**

(Perm req)

*Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461); and 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (CMSC106, CMSC131); and minimum grade of C- in MATH410. Cross-listed with: CMSC466. Credit only granted for: AMSC460, CMSC460, AMSC466, or CMSC466.*

*Floating point computations, direct methods for linear systems, interpolation, solution of nonlinear equations.*

*Click here for more course information.*

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| 0101 | Dionisios Margetis<br>TuTh 9:30am - 10:45am | Seats (Total: 25)<br>MTH 0105 |

**AMSC498A** **Selected Topics in Applied Mathematics**

(Perm req)

*Topics in applied mathematics of special interest to advanced undergraduate students.*

**Contact department for information to register for this course.**

**AMSC660** **Scientific Computing I**

(Perm req)

*Prerequisite: Must have knowledge of Matlab or Python. Cross-listed with: CMSC660. Credit only granted for: AMSC660 or CMSC660.*

*Fundamental techniques in scientific computation with an introduction to theory and software for each topic. Computer numbers and sources of errors, numerical linear algebra, optimization, and Monte Carlo methods.*

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| 0101 | Maria Cameron<br>MWF 10:00am - 10:50am | Seats (Total: 40)<br>PHY 0405 |

**AMSC666** **Numerical Analysis I**

*Prerequisite: CMSC466 or AMSC466; and MATH410. Cross-listed with: CMSC666. Credit only granted for: AMSC666 or CMSC666.*

*Approximation theory, numerical solution of initial-value problems, iterative methods for linear systems, optimization.*

*Click here for more course information.*

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| 0101 | Tobias von Petersdorff<br>MWF 11:00am - 11:50am | Seats (Total: 25)<br>MTH 0411 |

**AMSC673** **Partial Differential Equations I**

*Prerequisite: MATH411; or students who have taken courses with comparable content may contact the department. Cross-listed with: MATH673. Credit only granted for: AMSC673 or MATH673.*

*Analysis of boundary value problems for Laplace's equation, initial value problems for the heat and wave equations. Fundamental solutions, maximum principles, energy methods. First order nonlinear PDE, conservation laws. Characteristics, shock formation, weak solutions. Distributions, Fourier transform.*

Offered fall only. Cross-listed with MATH673.

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|---|---|---|
| 0101 | Dionisios Margetis | Seats (Total: 18) |
| | TuTh 11:00am - 12:15pm | CHE 2145 |

**AMSC689** **Research Interactions in Applied Mathematics and Scientific Computation**

(Perm req)

*The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.*

**Contact department for information to register for this course.**

**AMSC698Q** **Advanced Topics in Applied Mathematics; The Mathematics of Quantum Information Science**

Prerequisites: Linear Algebra, Calculus, Probability, or Permission by the instructor. This course will provide students with the necessary mathematical tools and background knowledge to understand, model, and conceptualize quantum information science and its building blocks and systems. The course will use elements from calculus, linear algebra, real and complex analysis, and probability.

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| 0101 | Konstantina Trivisa | Seats (Total: 30) |
| | TuTh 12:30pm - 1:45pm | MTH 1308 |

**AMSC715** **Numerical Methods for Evolution Partial Differential Equations**

*Prerequisite: Permission of instructor; or one graduate level course in partial differential equations or one graduate level course in numerical analysis or scientific computing. Credit only granted for: AMSC612 or AMSC715. Formerly: AMSC612. Additional information: This course continues AMSC 714, but can be taken independently, and is a complement to the graduate courses MATH 673 and MATH 674 in PDEs, AMSC 666 in numerical analysis, and AMSC 660 and AMSC 661 in scientific computing.*

*Topics include: Heat and wave equations: maximum principle, energy methods and Sobolev spaces, finite difference and finite element methods, von Neumann analysis, stability and error estimates;Linear first order PDEs: upwinding and monotone schemes, finite difference, finite volume, and discontinuous Galerkin methods; Nonlinear conservation laws: weak solutions and entropy conditions,monotone methods.*

*Click here for course information.*

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| 0101 | Eitan Tadmor | Seats (Total: 20) |
| | TuTh 2:00pm - 3:15pm | PHY 4222 |

**AMSC721** **Mathematical Population Biology**

*Prerequisite: Calculus, differential equations, modeling, linear algebra, familiarity with mathematical software and programming languages (e.g., MATLAB, R, Python etc.); or permission of instructor. Cross-listed with: BIOL721. Credit only granted for: AMSC721 or BIOL721. Additional information: Open to advanced undergraduates by permission of instructor.*

*Foundational principles for modeling and analysis of real-life phenomena in population biology. Topics include design and analysis of models for general classes of unstructured (single species discrete-time and continuous-time, interacting populations etc.) and structured (spatially-structured, age- structured, sex-structured) population biology models in ecology and epidemiology, dynamics analysis of population biology models (asymptotic stability and bifurcation theory), numerical discretization of continuous-time models, statistical analysis (parameter estimation, uncertainty quantification).*

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| 0101 | Abba Gumel | Seats (Total: 25) |
| | TuTh 9:30am - 10:45am | MTH B0421 |

**AMSC760** **Applied Statistics Practicum**

(Perm req)

*Prerequisite: Must have completed one year of graduate study in Applied Statistics. Restriction: Must have project proposal approved by SAC coordinator.*

*A semester long applied applied statistical project (a minimum 10 hours per week or 120 hours in total), in an internship of collaborative research-laboratory setting working on a substantive applied quantitative project with significant statistical content.*

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| 0101 | Instructor: TBA | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**AMSC762** **Data Analysis Project**

(Perm req)

*Restriction: Permission of CMNS-Applied Mathematics department; and permission of instructor.*

*This course cannot be used to meet any of the Applied Statistics Area's seminar requirements. Offered yearly, required of and limited to MS non-thesis and doctoral students in Applied Statistics Area, for whom the resulting projects serve as a Qualifying Exam component. After 5-6 lectures or presentations on components of successful data analyses and write-ups, 3-4 sessions will discuss previous student project submissions. The culminating project, to be completed in a two week period between semesters, is an analysis and written report of one of three project choices made available each year to represent a spectrum of realistic applied statistical problems.*

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| 0101 | Radu Balan | Seats (Total: 15) |
| | Contact instructor or department for details. | |

**AMSC799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**AMSC808A** **Advanced Topics in Applied Mathematics**

*Advanced topics of current interest.*

**Contact department for information to register for this course.**

**AMSC898** **Pre-Candidacy Research**

**Contact department for information to register for this course.**

**AMSC899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# AMST American Studies Fall 2024

**AMST101** **Introduction American Studies**

*Credit only granted for: AMST101 or AMST201. Formerly: AMST201.*

*Introduces students to the interdisciplinary field of American Studies by examining concepts such as culture, identity, cultural practices, and globalization, as well as theories underlying these concepts. Engages key themes, especially constructions of difference and identity, cultures of everyday life, and America and the world.*

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|---|---|---|---|
| 0101 | Christina Hanhardt<br>MW 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 15)<br>TWS 1310<br>ASY 1101 | Discussion |
| 0102 | Christina Hanhardt<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 15)<br>TWS 1310<br>ASY 1101 | Discussion |
| 0103 | Christina Hanhardt<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 15)<br>TWS 1310<br>ASY 2115 | Discussion |
| 0104 | Christina Hanhardt<br>MW 11:00am - 11:50am<br>F 12:00pm - 12:50pm | Seats (Total: 15)<br>TWS 1310<br>ASY 1101 | Discussion |
| FC01 | Alice Santana<br>F 10:00am - 11:15am<br>Class time/details on ELMs<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>SQH 1123<br>ONLINE | Discussion |

**AMST202** **Cultures of Everyday Life in America**

*Examine the structures and patterns of everyday life in the U.S., utilizing methods such as ethnography, oral history, survey research, and textual, visual, and material cultural analysis.*

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| 0101 | Melodie Jackson<br>MW 10:00am - 10:50am<br>F 10:00am - 10:50am | Seats (Total: 25)<br>ONLINE<br>ONLINE | <br><br>Discussion |

**AMST203** **Popular Culture in America**

*An introduction to American popular culture, its historical development, and its role as a reflection of and influence on our culture and society.*

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| 0201 | Zachary Johnson<br>MW 9:00am - 9:50am<br>F 9:00am - 9:50am | Seats (Total: 25)<br>ONLINE<br>ONLINE | <br><br>Discussion |
| FC01 | Kristine Li Puma<br>F 1:00pm - 2:15pm<br>Class time/details on ELMs<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>TWS 1313<br>ONLINE | <br><br>Discussion |
| FCW1 | Zachary Johnson<br>F 11:30am - 12:45pm<br>Class time/details on ELMs<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 16)<br>ONLINE<br>ONLINE | <br><br>Discussion |

**AMST204** **Film and American Culture Studies**

*Exploration of the American film from a historical perspective, illustrating the motion picture's role as an institutional phenomenon, as a form of communication, and as a source of cross-cultural study.*

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| 0101 | Susan Pramschufer<br>TuTh 9:30am - 10:45am | Seats (Total: 35)<br>TWS 0236 | |

**AMST205** **Material Aspects of American Life**

*Historical survey of American material culture. Ways of describing and interpreting accumulated material evidence (e.g., buildings, town plans) introduced by stressing relationship between artifact and culture.*

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| FC01 | Carla Thomas Mcginnis<br>F 2:00pm - 3:15pm<br>Class time/details on ELMs<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 16)<br>ASY 2115<br>ONLINE | <br><br>Discussion |

| | | | |
|---|---|---|---|
| FC02 | Grace Kwon<br>F 9:30am - 10:45am<br>Class time/details on ELMs<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 16)<br>ASY 2115<br>ONLINE | Discussion |

**AMST262** **Houses, Schools, and Prisons in American Life**

*This interdisciplinary course explores the role of property, discipline, and punishment in American life. By exploring the ideological underpinnings in property, discipline, and punishment and their manifestations in houses, schools, and prisons we will explore how these entities reflect American society and its values.*

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| 0101 | Perla Guerrero<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 15)<br>TWS 1310<br>ASY 2115 | Discussion |
| 0102 | Perla Guerrero<br>MW 1:00pm - 1:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 15)<br>TWS 1310<br>ASY 2115 | Discussion |
| 0103 | Perla Guerrero<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 15)<br>TWS 1310<br>ASY 1101 | Discussion |
| 0104 | Perla Guerrero<br>MW 1:00pm - 1:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 15)<br>TWS 1310<br>ASY 1101 | Discussion |

**AMST298C** **Introduction to Asian American Studies**

*Cross-listed with: AAST200. Credit only granted for: AAST200 or AMST298C.*

*The aggregate experience of Asian Pacific Americans, from developments in the countries of origin to their contemporary issues. The histories of Asian Pacific American groups as well as culture, politics, the media, and stereotypes, viewed from an interdisciplinary perspective.*

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| 0101 | Julie Park<br>TuTh 2:00pm - 3:15pm | Seats (Total: 40)<br>SQH 1105 | |
| 0201 | Jennifer Cho<br>TuTh 9:30am - 10:45am | Seats (Total: 40)<br>TWS 0223 | |

**AMST298D** **Selected Topics in American Studies**

*Cultural study of a specific theme or issue involving artifacts and documents from both past and contemporary American experience.*

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| 0101 | Neel Ahuja<br>MW 3:00pm - 3:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 25)<br>ONLINE<br>ONLINE | <br><br>Discussion |
| 0102 | Neel Ahuja<br>MW 3:00pm - 3:50pm<br>F 3:00pm - 3:50pm | Seats (Total: 25)<br>ONLINE<br>ONLINE | <br><br>Discussion |
| 0103 | Neel Ahuja<br>MW 3:00pm - 3:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 25)<br>ONLINE<br>ONLINE | <br><br>Discussion |
| 0104 | Neel Ahuja<br>MW 3:00pm - 3:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 25)<br>ONLINE<br>ONLINE | <br><br>Discussion |

**AMST298Q** **U.S. Latinx Literature and Culture**

*Cross-listed with: ENGL235. Credit only granted for: ENGL235 or AMST298Q.*

*Examines the poetry, prose, and theater of Latinx communities in the United States from their origins in the Spanish colonization of North America to their ongoing development in the 21st century. Considers how authors use literary form to gain insight into human experience, including mortality, religious belief, gender and sexuality, war and peace, family, language use, scientific inquiry, cultural tradition, ecology, and labor. Also studies how Latinx literary traditions have shaped and been shaped by broader currents in American literature, as well as what connections exist between Latinx literature and social and artistic developments in other parts of the world, particularly Latin America and the Caribbean. Authors may include Alvar Nunez Cabeza de Vaca, Eulalia Perez, Juan Nepomuceno Seguin, Maria Amparo Ruiz de Burton, Jose Marti, Arthur A. Schomburg, Jesus Colon, Julia de Burgos, Cesar Chavez, Ariel Dorfman, Gloria Anzaldua, Junot Diaz, and Cristina Garcia.*

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| 0101 | James Rankin<br>MW 5:00pm - 6:15pm | Seats (Total: 30)<br>TWS 0214 | |

**AMST312** **Introduction to Native American and Indigenous Studies**

*Credit only granted for: AMST328N, ANTH468F, RELS319N, or AMST312. Formerly: AMST328N, ANTH468F, or RELS319N.*

*Key concepts and theories in Native American Studies beginning with an overview of the field and some of its foundational readings and history, then will move into an understanding of Native American identity and representation and a discussion of Indigenous sovereignty and self-determination. The course will outline past and present genocidal practices that seek to eliminate Native people and Indigenous responses to those structures such as the concept of survivance, Native feminisms, and theories of Indigenous resurgence. The course seeks to move students through an understanding of past and present structures affecting Native American people in the United States and Canada and move into readings that highlight Native articulations of present and future agency. While the focus of the course is Native peoples with the United States and Canada, understanding Indigenous histories and concepts always includes a hemispheric and transnational analysis.*

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| 0101 | Bayley Marquez | Seats (Total: 25) |
| | TuTh 2:00pm - 3:15pm | TWS 0134 |

**AMST315** **Religion in American Culture**

*Recommended: AMST101. Credit only granted for: AMST315 or AMST328R. Formerly: AMST328R.*

*Introduces students to the world's major religious traditions and examines how American culture informs, and is informed by, the variety of religious beliefs and practices in the U.S. This course is primarily concerned with religion as a system of meaning. The focus of the course is not on the history of religion or on analysis of religious texts, but rather on the meaning of a religion to its believers.*

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| 0101 | Asim Ali | Seats (Total: 20) |
| | TuTh 2:00pm - 3:15pm | TWS 0330 |

**AMST320** **(Dis)ability in American Film**

*Credit only granted for: AMST320 or AMST328X. Formerly: AMST328X.*

*Explores the connection between film and disability through an analysis of independent and mainstream American films in various film genres. Specifically, we will consider how these film representations reflect and/or challenge the shifting social perspectives of disability over the 20th and 21st centuries. Beginning with the presentation of disability as theatrical spectacle in the traveling sideshow and early cinema, we will work our way through film history to develop an understanding of our society's complicated relationship with disability.*

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| 0101 | Susan Pramschufer | Seats (Total: 20) |
| | TuTh 11:00am - 12:15pm | ASY 3217 |

**AMST324** **Growing Up Asian American: The Asian Immigrant Family and the Second Generation**

*Cross-listed with: AAST394, IMMR394. Credit only granted for: AAST394, AAST398E, AMST324, AMST328V, IMMR319G or IMMR394. Formerly: AAST398E.*

*An interdisciplinary course examines the experiences of children of Asian immigrants in the U.S., focusing on intergenerational dynamics in the Asian immigrant family, their intersections with race, gender, class, sexuality, and religion, and how these shape second-generation Asian American life. Topics include identity and personhood, the model minority myth and education, work and leisure, language and communication, filiality and disownment, mental health and suicide.*

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|---|---|---|
| 0101 | Joan Hong | Seats (Total: 30) |
| | TuTh 12:30pm - 1:45pm | HBK 1108 |

**AMST328B** **Perspectives on Identity and Culture; Angela Davis**

*Analysis of the cultural aspect of identity formation and the role of individual or community identities in cultural production. Examination of cultural texts such as film, literature, fashion, artifacts, archival records, architecture, monuments, sports, and paintings.*

Cross-listed with AASP398U, ENGL368F, and WGSS379U. Credit only granted for AASP398U, AMST328B, ENGL368F, and WGSS379U. This course explores the meaning and significance of Angela Davis work for thinking through issues of race, nation, class, gender, carceral culture, and transnational solidarity. Her life and work is set between theorizing histories of race, racism, class, and gender and political organizing and public intellectual work. We will examine all of these aspects by reading her work from its beginning and up through contemporary commentary on incarceration, Palestine, and related issues. The centerpiece of this course will be her study of African-American music in its Black feminist iteration, Blues Legacies and Black Feminism.

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|---|---|---|
| 0101 | John Drabinski | Seats (Total: 25) |
| | TuTh 9:30am - 10:45am | TLF 0110 |

**AMST328C** **Perspectives on Identity and Culture; Race and the Story of American Freedom**

*Analysis of the cultural aspect of identity formation and the role of individual or community identities in cultural production. Examination of cultural texts such as film, literature, fashion, artifacts, archival records, architecture, monuments, sports, and paintings.*

Together, we will explore these and many other questions as we survey American history while emphasizing the ways ethnic and racial minoritieshave shaped American identity from pre-historic times through the present. By examining or re-examining American history through the lens of these and other racial and ethnic groups we will develop an understanding of key concepts and definitions such as race/class/gender;ethnic group, racial group, minority/majority; institutional racism; social construction of race versus biological construction, resistance, and change.

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| 0101 | Jamila Moore-Pewu | Seats (Total: 30) |
| | Class time/details on ELMs | ONLINE |

**AMST328J** **Perspectives on Identity and Culture**

*Analysis of the cultural aspect of identity formation and the role of individual or community identities in cultural production. Examination of cultural texts such as film, literature, fashion, artifacts, archival records, architecture, monuments, sports, and paintings.*

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| 0101 | Gemirald Daus | Seats (Total: 35) |
| | Tu 5:00pm - 7:30pm | ASY 3207 |

**AMST328M** **Perspectives on Identity and Culture; Black Baltimore in the Post Racial U.S: African American Urban Culture in the Age of Obama**

*Analysis of the cultural aspect of identity formation and the role of individual or community identities in cultural production. Examination of cultural texts such as film, literature, fashion, artifacts, archival records, architecture, monuments, sports, and paintings.*

Cross-listed with AASP398Q. Credit only granted for AASP398Q or AMST328M. Using the city of Baltimore as our case study and taking an interdisciplinary approach that draws from the scholarly fields of African American studies, sociology, geography, anthropology, history, and urban planning this course explores how both Blackness and anti-Blackness shape the city, its histories, its racial and cultural geography, its social movements, its political economy, and the competing visions for its future. This is an interactive course that will work to develop students capacity to understand and discuss major and minor moments in the history of Black Baltimore; understand and discuss the relationship between material conditions, racism, and urban policy; develop interdisciplinary frameworks through which to interpret and analyze the contemporary and historical conditions shaping the lived experiences of Black Baltimoreans; and analyze scholarship produced within the African American Studies tradition.

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| 0101 | Robert Choflet | Seats (Total: 30) |
| | W 3:00pm - 5:30pm | BPS 1232 |

**AMST328W** **Asian Americans in Film**

*Cross-listed with: AAST355. Credit only granted for: AAST355, AAST398L or AMST328W. Formerly: 398L.*

*Explores how Asian Americans have historically been represented in the U.S. by Hollywood, and in turn, how independent and Hollywood Asian American filmmakers have represented themselves. It covers the history of racial, gendered, and sexualized representations of Asian Americans in Hollywood, as well as Asian American filmic responses within and outside Hollywood. It also introduces how four basic tools of film analysis mise-en-scene, cinematography, editing and sound work together to create meaning in moving images. It examines how these elements are put together in three different types of films by Asian American filmmakers: narrative, documentary, and experimental. How films function in society to circulate ideas that reproduce and challenge stereotypes about Asian Americans.*

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| 0101 | Jennifer Cho | Seats (Total: 30) |
| | TuTh 2:00pm - 3:15pm | TWS 1107 |

**AMST340** **Introduction to History, Theories and Methods in American Studies**

(Perm req)

*Prerequisite: Must have completed AMST201; and 2 courses in AMST. Restriction: Must be in American Studies program; and sophomore standing or higher.*

*Introduction to the process of interdisciplinary research, including research literatures, questions, first-hand sources and library and analytic methods in American Studies. Each student will craft a prospectus for original research.*

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| 0101 | Jamila Moore-Pewu | Seats (Total: 20) |
| | TuTh 11:00am - 12:15pm | TWS 0134 |

**AMST386** **Experiential Learning**

(Perm req)

*Restriction: Permission of ARHU-American Studies department; and junior standing or higher.*

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| 0401 | Asim Ali | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**AMST388** **Honors Thesis**

(Perm req)

*Individual research, thesis and oral defense. The research project will be conducted under the supervision of a faculty member.*

**Contact department for information to register for this course.**

**AMST398** **Independent Studies**

(Perm req)

*Provides the student with the opportunity to pursue independent, interdisciplinary research and reading in specific areas of American culture studies.*

**Contact department for information to register for this course.**

**AMST418H** **Cultural Themes in America; Cultural Themes in America-Honors**

(Perm req)

*Examination of structure and development of American culture through themes such as "growing up American," "culture and mental disorders," "race," "ethnicity," "regionalism," "landscape," and "humor."*

Prerequisite: At least three credit hours of prior coursework in AMST.

**Contact department for information to register for this course.**

**AMST498C** **Special Topics in American Studies; Central Americans and the United States: Culture, Politics, and Community**

*Topics of special interest.*

Cross-listed with USLT450. Credit only granted for AMST498C, USLT450, or USLT498D. With attention to history, memory, politics, and culture, explores the relationships, conflicts, and exchanges of people and power between the United States and the Central American isthmus. Through literature, feature films, documentary films, theatre, poetry, and other mediums, the course investigates the role of the US government and military, as well as US corporate interests and US-backed dictatorships, in the culture, politics, and economy of nations including El Salvador, Nicaragua, Guatemala, and Honduras.

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| 0101 | Robert Chester | Seats (Total: 20) |
| | TuTh 12:30pm - 1:45pm | JMP 1109 |

**AMST498D** **Special Topics in American Studies; Black Women in Twentieth Century America**

*Topics of special interest.*

Cross-listed with HIST319X, WGSS379J, and AASP398J. Credit only granted for HIST319X, WGSS379J, AMST498D, or AASP398J. Traces twentieth-century United States history from the perspective of Black women. We will center their diverse voices and experiences as we explore themes including family, work, activism, and cultural expression.

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| 0101 | Leigh Soares | Seats (Total: 30) |
| | TuTh 2:00pm - 3:15pm | TYD 1118 |

**AMST498J** **Asian American Politics**

*Cross-listed with: AAST443, GVPT368C. Credit only granted for: AAST498T, AAST443, GVPT368C or AMST 498J. Formerly: AAST498T.*

*Students will gain a greater understanding of 1) the role of Asian Americans in US politics, 2) the political attitudes and behaviors of Asian Americans and 3) how to conduct research on Asian American politics. Though the class will concentrate on Asian Americans, issues related to Asian American politics will be examined within the larger context of America's multicultural political landscape.*

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| 0101 | Janelle Wong | Seats (Total: 30) |
| | MW 2:00pm - 3:15pm | PLS 1117 |

**AMST498L** **Special Topics in American Studies; Native Americans and US Cinema**

*Topics of special interest.*

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| 0101 | Robert Chester | Seats (Total: 20) |
| | TuTh 11:00am - 12:15pm | JMP 1109 |

**AMST601** **Introductory Theories and History in American Studies**

*Restriction: Must not be a Graduate Advanced Special Student.*

*Explores the formative literature, theories, research approaches, and history of American Studies.*

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| 0101 | Bayley Marquez | Seats (Total: 10) |
| | W 4:00pm - 6:40pm | TWS 0134 |

**AMST628C** **Seminar in American Studies; Race and Media Theory and Practice**

(Perm req)

Restriction: Permission of instructor. Cross-listed with WMST698E. Credit only granted for AMST628C or WMST698E. This class looks at foundational and new interdisciplinary scholarship on race and media. The course will explore topics such as media production, distribution, markets, representation, and audiences.

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| 0101 | Eva Hageman | Seats (Total: 15) |
| | M 4:00pm - 6:40pm | SQH 4116 |

**AMST628G** **Seminar in American Studies; Haiti: Literature, Culture, and Identity**

Cross-listed with FREN699D. Credit only granted for FREN699D or AMST628G. Examines Haiti s culture and identity through historical, social, political, economic, linguistic and religious lenses. Through the study of critical and literary texts as well as films we will analyze Haiti's place and influence in history as the first Black Republic and the second independent nation in the Western hemisphere.

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| 0101 | Cecile Accilien | Seats (Total: 10) |
| | Tu 4:30pm - 7:15pm | JMZ 3120 |

**AMST629D** **Seminar in American Studies; Race, Class, and Material Culture**

This proseminar introduces students to material culture studies and to consider how objects have been used to reinforce, propagate, and resist cultural hierarchies based on race, class, gender, sexuality, and national identity. Using a wide range of methodologies, fieldwork techniques, and theoretical approaches we will largely examine the material culture genres and subfields of cultural landscapes, food, decorative arts, public history, and photography.

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| 0101 | Psyche Williams-Forson | Seats (Total: 20) |
| | W 4:00pm - 6:40pm | KEY 0116 |

**AMST629F** **Seminar in American Studies; Fascisms**

This seminar asks whether and how 'fascism' and 'anti-fascism' might be useful terms for social, historical, and political analysis. From the association of fascism with police violence and colonial domination to the characterization of contemporary anti-immigrant discourses as fascistic, there have been a variety of late twentieth and early twenty-first century invocations of fascism as a rising aspect of political mobilization around the world. What definitions of fascism have been useful to scholars of historical and present-day political movements? What understandings of the body, the human, and the state do the analysis of 'fascism' allow or obscure? How have different anti-fascist mobilizations intersected with (or failed to intersect with) other related social movements?

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| 0101 | Neel Ahuja | Seats (Total: 14) |
| | Tu 11:00am - 1:30pm | SQH 4103 |

**AMST655** **Introduction to Museum Scholarship**

*Cross-listed with: ANTH655, HIST610, INST653. Credit only granted for: AMST655, ANTH655, HIST610, INST728T or INST653.*

*Provides students a basic understanding of museums as cultural and intellectual institutions. Topics include the historical development of museums, museums as resources for scholarly study, and the museum exhibition as medium for presentation of scholarship.*

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| 0201 | Diana Marsh | Seats (Total: 30) |
| | Th 2:00pm - 4:40pm | TWS 0205 |

**AMST698** **Directed Readings in American Studies**

(Perm req)

*This course is designed to provide students with the opportunity to pursue independent, interdisciplinary research and reading in specific aspects of American culture under the supervision of a faculty member.*

**Contact department for information to register for this course.**

**AMST798** **Non-Thesis Research**
**Contact department for information to register for this course.**

**AMST799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**AMST857** **Museum Scholarship Practicum**

(Perm req)

*Prerequisite: AMST856, ANTH856, or HIST810. Restriction: Permission of Museum Scholarship Program required. Cross-listed with: ANTH857, HIST811, INST787. Credit only granted for: AMST857, ANTH857, HIST811, INST728I or INST787.*

*Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.*

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|---|---|---|
| IM01 | Paul Jaeger | Seats (Total: 12) |
| | Contact instructor or department for details. | |

**AMST878A** **American Studies Pedagogy Mentoring; Mentoring for First Year Teaching in American Studies**

(Perm req)

*This course provides graduate teaching assistants with a structured approach to pedagogical content, techniques, and collaborative practices that they learn and then can use throughout their careers. It also commits a core faculty member to teaching pedagogy and makes it possible for the course to become a formal part of one's load.*

Prerequisite: permission of department and must be a current AMST teaching assistant.

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| 0101 | Bayley Marquez | Seats (Total: 8) |
| | Contact instructor or department for details. | |

**AMST878B** **American Studies Pedagogy Mentoring; Mentoring for Second Year Teaching in American Studies**

(Perm req)

*This course provides graduate teaching assistants with a structured approach to pedagogical content, techniques, and collaborative practices that they learn and then can use throughout their careers. It also commits a core faculty member to teaching pedagogy and makes it possible for the course to become a formal part of one's load.*

Prerequisite: permission of department and must be a current AMST teaching assistant.

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| 0101 | Bayley Marquez | Seats (Total: 6) |
| | Contact instructor or department for details. | |

**AMST878C** **American Studies Pedagogy Mentoring; Mentoring for Third Year Teaching in American Studies**

(Perm req)

*This course provides graduate teaching assistants with a structured approach to pedagogical content, techniques, and collaborative practices that they learn and then can use throughout their careers. It also commits a core faculty member to teaching pedagogy and makes it possible for the course to become a formal part of one's load.*

Prerequisite: permission of department and must be a current AMST teaching assistant.

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| 0101 | Bayley Marquez | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**AMST898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**AMST899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

*The following courses may involve the use of animals. Students who are concerned about the use of animals in teaching have the responsibility to contact the instructor, prior to course enrollment, to determine whether animals are to be used in the course, whether class exercises involving animals are optional or required and what alternatives, if any, are available.*

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**ANSC101** **Principles of Animal Science**

*A comprehensive overview of the application of biology in the care and use of animals that live in close association with humans including food animals, companion animals, lab animals, zoo animals, etc. The role of science in modern food production using animals will be emphasized.*

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|---|---|---|---|
| 0101 | Kristina Mayo<br>MWF 1:00pm - 1:50pm | Seats (Total: 156)<br>ESJ 1224 | |

**ANSC103** **Principles of Animal Science Laboratory**

*Prerequisite: Must have completed or be concurrently enrolled in ANSC101. Restriction: Must be in one of the following programs (Environmental Sci & Pol-Environment & Agriculture; Agricultural and Veterinary Medicine; Agricultural Science and Technology) ; or must be in a major within the AGNR-Animal & Avian Sciences department; or permission of department required for students in other College of AGNR programs.*

*Laboratory focusing on the application of biology in the care and use of animals that live in close association with humans including livestock and companion animals. Labs will include live animals.*

Students must pay a $50.00 laboratory materials fee.

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| 0101 | Kristina Mayo<br>M 3:00pm - 4:50pm | Seats (Total: 21)<br>ANS 1144 | Lab |
| 0201 | Kristina Mayo<br>Tu 2:00pm - 3:50pm | Seats (Total: 21)<br>ANS 1144 | Lab |
| 0301 | Kristina Mayo<br>W 10:00am - 11:50am | Seats (Total: 21)<br>ANS 1144 | Lab |
| 0401 | Kristina Mayo<br>W 3:00pm - 4:50pm | Seats (Total: 21)<br>ANS 1144 | Lab |
| 0501 | Kristina Mayo<br>Th 2:00pm - 3:50pm | Seats (Total: 21)<br>ANS 1144 | Lab |

**ANSC105** **Horse Care Practicum**

(Perm req)

*Restriction: Permission of the instructor. Credit only granted for: ANSC108 or ANSC105. Formerly: ANSC108.*

*This practicum course provides the opportunity for students to be involved in the routine care of the horses housed at the Campus Farm including grooming, feeding, turnout, first aid, record-keeping, and cleaning. Practical skills are supplemented with online learning.*

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| 0101 | Rose Cardinal | Seats (Total: 30) |
| | Class time/details on ELMs<br>Contact instructor or department for details. | ONLINE |

**ANSC204** **Anatomy of Domestic Animals**

*Prerequisite: ANSC101, ANSC103, BSCI170 and BSCI171. Corequisite: ANSC205. Restriction: Must be in one of the following programs (Environmental Sci&Pol-Wildlife Resources & Cons; Animal Sciences: Animal Care & Management; Animal Sciences: Equine Studies; Animal Sciences: Laboratory Animal Care; Animal Sciences: Sciences/Preprofessional; Animal Sciences: Animal Biotechnology; Agricultural and Veterinary Medicine). Credit only granted for: ANSC211 or ANSC204 AND ANSC205. Formerly: ANSC211.*

*Covering the anatomy of major species of domestic animals. Utilizes a systemic approach to provide a general knowledge of both gross and microscopic mammalian structure. Comparative differences between the major domestic species are covered.*

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| 0101 | Angela Black | Seats (Total: 90) |
| | MW 2:00pm - 2:50pm | ANS 0408 |

**ANSC205** **Anatomy of Domestic Animals Laboratory**

*Prerequisite: ANSC101, ANSC103, BSCI170 and BSCI171. Corequisite: ANSC204. Restriction: Must be in one of the following programs (Environmental Sci&Pol-Wildlife Resources & Cons; Animal Sciences: Animal Care & Management; Animal Sciences: Equine Studies; Animal Sciences: Laboratory Animal Care; Animal Sciences: Sciences/Preprofessional; Animal Sciences: Animal Biotechnology; Agricultural and Veterinary Medicine). Credit only granted for: ANSC211 or ANSC204 and ANSC205. Formerly: ANSC211.*

*A regional approach is taken to study the gross anatomy of major domestic species in the laboratory portion of this course.*

Students must pay a $50.00 laboratory materials fee.

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|---|---|---|---|
| 0101 | Angela Black | Seats (Total: 24) | |
| | Tu 9:00am - 10:50am | ANS 0108 | Lab |
| | Tu 11:00am - 11:50am | ANS 0108 | Discussion |

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| 0102 | Angela Black<br>Tu 1:00pm - 2:50pm<br>Tu 3:00pm - 3:50pm | Seats (Total: 24)<br>ANS 0108<br>ANS 0108 | <br>Lab<br>Discussion |
| 0103 | Angela Black<br>Th 9:00am - 10:50am<br>Th 11:00am - 11:50am | Seats (Total: 24)<br>ANS 0108<br>ANS 0108 | <br>Lab<br>Discussion |
| 0104 | Angela Black<br>Th 1:00pm - 2:50pm<br>Th 3:00pm - 3:50pm | Seats (Total: 24)<br>ANS 0108<br>ANS 0108 | <br>Lab<br>Discussion |

**ANSC210** **Veterinary Terminology**

*Prerequisite: ANSC204 and ANSC205; or ANSC201. Restriction: Must be a major in Animal Sciences. Additional information: The course is offered on-line through a series of self-paced modules on ELMS.*

*Students will learn terminology related to the clinical practice of small and large animal medicine including medical record terminology and a systems-based consideration of common practices and pathologies.*

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| 0101 | Kristina Mayo<br>Class time/details on ELMs | Seats (Total: 80)<br>ONLINE | |

**ANSC227** **Eating with Eyes Wide Open**

*Are our diet and agricultural production methods sustainable? Students will investigate tensions created by trade-offs made by consumers relative to dietary choices which, in turn, can influence agricultural production methods. The course will inform students about their food supply so they can make informed dietary decisions and practice intentional/informed eating.*

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| 0101 | R Apter<br>MW 10:00am - 10:50am<br>M 1:00pm - 2:50pm | Seats (Total: 20)<br>ANS 0408<br>ANS 1144 | <br><br>Lab |
| 0102 | R Apter<br>MW 10:00am - 10:50am<br>Tu 9:00am - 10:50am | Seats (Total: 20)<br>ANS 0408<br>ANS 1144 | <br><br>Lab |
| 0103 | R Apter<br>MW 10:00am - 10:50am<br>W 1:00pm - 2:50pm | Seats (Total: 20)<br>ANS 0408<br>ANS 1144 | <br><br>Lab |

**ANSC232** **Horse Management**

*Prerequisite: ANSC101 and ANSC103. Credit only granted for: ANSC232 or ANSC332. Formerly: ANSC332.*

*An introductory course on the care, management, and use of horses. Major topics include the industry, breeds, conformation, feeding, health, reproduction, facilities and business.*

Students must pay a $50.00 lab materials fee.

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| 0101 | Amy Burk<br>MW 10:00am - 10:50am<br>F 9:00am - 10:50am | Seats (Total: 20)<br>ANS 0412<br>ANS 1144 | <br><br>Lab |
| 0102 | Amy Burk<br>MW 10:00am - 10:50am<br>F 2:00pm - 3:50pm | Seats (Total: 20)<br>ANS 0412<br>ANS 1144 | <br><br>Lab |

**ANSC246** **Beef Management**

*Prerequisite: ANSC101 and ANSC103. Additional information: Students will participate in night watches at the campus farm.*

*Provides an interactive environment for learning and understanding all areas of beef cattle management including hands-on involvement in the birthing process and care of newborn calves on the campus farm. Course topics will include: An introduction to Beef Production, Breeding and Selection, Reproduction, Nutrition, Cattle Health and Diseases, Cattle Behavior, facility design and management, and Careers working in the American Beef industry.*

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| 0101 | Racheal Slattery<br>MW 12:00pm - 12:50pm<br>Th 9:00am - 10:45am | Seats (Total: 16)<br>ANS 1144<br>ANS 1144 | <br><br>Lab |

**ANSC252** **Introduction to the Diseases of Wildlife**

*Prerequisite: BSCI105; or (BSCI170 and BSCI171); or permission of AGNR-Animal & Avian Sciences department; or students who have taken courses with comparable content may contact the department.*

*The principal diseases of North American wildlife will be briefly considered. For each disease, specific attention will be given to the following: signs evidenced by the affected animal or bird, causative agent, means of transmission and effects of the disease on the population of the species involved.*

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| 0101 | Andrea Aplasca<br>M 6:00pm - 7:50pm<br>M 8:00pm - 8:50pm | Seats (Total: 30)<br>ONLINE<br>ONLINE | <br><br>Discussion |

**ANSC255** **Introduction to Aquaculture**

*Prerequisite: ANSC101 and ANSC103; or must have completed an introductory biology course.*

*Introduces the art and science of rearing aquatic animals and the essential principles of aquaculture. Students receive hands-on training in the methods required for successful husbandry and management of aquatic animals in their water environment.*

Students must pay a $50.00 lab materials fee.

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| 0101 | Mohamed Salem | Seats (Total: 20) |
| | TuTh 11:00am - 12:50pm | ANS 1144 |

**ANSC314** **Comparative Animal Nutrition**

*Prerequisite: ANSC101 and ANSC103; and (CHEM231, PLSC275 or AGST275).*

*The fundamental role and implications of dietary preference, gastrointestinal physiology and nutrients in animal nutrition. Biochemical roles of nutrients in metabolism, digestion, absorption and assimilation as it relates to various life processes.*

Offered fall only.

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| 0101 | Nishanth Sunny | Seats (Total: 88) |
| | MWF 9:00am - 9:50am | ANS 0408 |

**ANSC359** **Internship Experience in Animal and Avian Sciences**

(Perm req)

*Experiential learning is a key component in an animal science education. Through the internship program, you will have the opportunity to develop your expertise in a specific species and discipline within the animal science curriculum. You will arrange an on- or off-campus internship experience related to animal science. You will spend a specified number of hours at the internship site each week and attend biweekly classroom sessions where we will discuss how the study of animal science fits into your specific internship experience as well as understand how to achieve each of the course learning outcomes.*

Prerequisite: ANSC220, ANSC232, ANSC242, ANSC250, ANSC255, ANSC260, or ANSC262. Restriction: Must be in a major within the AGNR-Animal & Avian Sciences department; and permission of instructor.

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| 0101 | Monica VanKlompenberg | Seats (Total: 22) |
| | Tu 3:30pm - 5:30pm | ANS 0402 |

**ANSC388** **Honors Thesis Research**

*Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.*

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| 2001 | Lisa Taneyhill | Seats (Total: 5) |
| | Contact instructor or department for details. | |

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|---|---|---|
| 3201 | Andrew Broadbent<br>Contact instructor or department for details. | Seats (Total: 5) |
| 4501 | Tom Porter<br>Contact instructor or department for details. | Seats (Total: 5) |
| 9102 | Andrew Schiffmacher<br>Contact instructor or department for details. | Seats (Total: 5) |

**ANSC389** **Experiential Learning**

(Perm req)

**Contact department for information to register for this course.**

**ANSC399** **Special Problems in Animal Science**

(Perm req)

*Work assignments are designed to be proportional to the amount of credit. Students are expected to develop an abstract, fact sheet, manuscript, oral presentation, poster, webpage, journal-log, or other scholarly product associated with their study and/or project.*

**Contact department for information to register for this course.**

**ANSC410** **The Gut Microbiome and its Roles in Health and Disease**

*Prerequisite: BSCI223, ANSC212, ANSC327, EPIB301, BSCI222, BSCI421, or NFSC430; or students who have taken courses with comparable content may contact the department. Credit only granted for: ANSC489M or ANSC410. Formerly: ANSC489M.*

*A comprehensive perspective of the role of gut microbiome/microflora in nutrition, metabolism, disease prevention and health issues including farm animal health and food value, and human gastrointestinal health and immunity.*

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| 0101 | Debabrata Biswas<br>TuTh 11:00am - 12:15pm | Seats (Total: 22)<br>ANS 0402 |

**ANSC417** **Regulatory Issues in Animal Care and Management**

*Prerequisite: ANSC220, ANSC232, ANSC242, ANSC250, ANSC255, ANSC260, ANSC262, or ANSC282; or permission of instructor. Additional information: Field trips may be required for this course.*

*A study of regulatory issues affecting animal care and management in the livestock industry. Guest speakers and classroom discussions will focus on key topics including animal welfare, feed and drug regulations, animal identification, CAFO management, processing and marketing of animal products.*

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| 0101 | Monica VanKlompenberg<br>TuTh 12:30pm - 1:45pm | Seats (Total: 23)<br>ANS 0402 |

**ANSC444** **Domestic Animal Endocrinology**

*Prerequisite: ANSC212; or permission of instructor. Restriction: Must not have completed ANSC644. Credit only granted for: ANSC489I, ANSC444, or ANSC644. Formerly: ANSC489I.*

*Current developments in endocrinology as it relates to animals used in the production of food and other products important to the well being of humans will be covered.*

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| 0101 | Tom Porter<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>ANS 0412 | |

**ANSC446** **Physiology of Mammalian Reproduction**

*Prerequisite: ANSC212 or BSCI440.*

*Anatomy and physiology of reproductive processes in domesticated and wild mammals.*

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|---|---|---|---|
| 0101 | Emilia Przygrodzka, Heewon Seo<br>TuTh 2:00pm - 3:15pm | Seats (Total: 60)<br>ANS 0408 | |

**ANSC447** **Physiology of Mammalian Reproduction Laboratory**

(Perm req)

*Prerequisite: Must have completed or be concurrently enrolled in ANSC446.*

*Gross and micro-anatomy, artificial insemination, estrous cycle synchronization and invitro-fertilization procedures and analytical techniques useful in animal management and reproduction.*

Students must pay a $50.00 laboratory materials fee.

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|---|---|---|---|
| 0101 | Emilia Przygrodzka, Heewon Seo<br>F 1:00pm - 2:50pm | Seats (Total: 20)<br>ANS 0108 | Lab |
| 0102 | Emilia Przygrodzka, Heewon Seo<br>F 11:00am - 12:50pm | Seats (Total: 20)<br>ANS 0108 | Lab |

**ANSC450** **Animal Breeding Plans**

*Prerequisite: ANSC101; and 1 course with a minimum grade of C- from (MATH120, MATH136, MATH140, or BIOM301). Restriction: Junior standing or higher.*

*Design of animal breeding programs for the genetic improvement of livestock and companion animal species. Principles of population and quantitative genetics. Genetic evaluations of animals, selection strategies and crossbreeding systems. Incorporation of statistics and biotechnology into animal breeding plans.*

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|---|---|---|---|
| 0101 | Monica VanKlompenberg<br>MWF 3:00pm - 3:50pm | Seats (Total: 32)<br>ANS 0422 | |

**ANSC454** **Nutritional Aspects of Metabolic Disease**

*Prerequisite: CHEM131 and ANSC101, or BSCI170; or students who have taken courses with comparable content may contact the department. Credit only granted for: ANSC4890 or ANSC454. Formerly: ANSC489O.*

*Biochemical and physiological fundamentals of nutrition. Discussion of protein, fat,carbohydrate, minerals and vitamins and their roles and interrelationships innutrition, metabolism and diseases in humans and animals. The course will use recommended texts for foundation material as well as research papers to provide in-depth coverage and illustrate emerging themes in metabolic aspects of nutrition and disease.*

| | | | |
|---|---|---|---|
| 0101 | Younggeon Jin | Seats (Total: 20) | |
| | TuTh 9:30am - 10:45am | ANS 0402 | |

**ANSC455 Applied Animal Behavior**

*Prerequisite: ANSC101 and ANSC103; or BSCI106; or (BSCI160 and BSCI161).*

*Principles of animal behavior applied to production systems in animal agriculture.*

Offered fall only.

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|---|---|---|---|
| 0101 | R Apter | Seats (Total: 60) | |
| | MW 12:00pm - 12:50pm | ANS 0408 | |
| | F 11:00am - 12:50pm | ANS 0408 | Lab |

**ANSC460 Comparative Vertebrate Immunology**

*Prerequisite: ANSC212, BSCI201, or BSCI440. Credit only granted for: ANSC460 or ANSC489I. Formerly: ANSC489I.*

*Basic concepts in immunology, and comparing immunity in different vertebrates, including organization of immune systems, innate and adaptive immune responses. Special attention will be paid to how cell-mediated and humoral immune responses are induced in natural infections, and what are the effector mechanisms in both of these processes. Immune response in representative disease models such as infections with viruses and bacteria, cancer, and autoimmune disease will be discussed. Lectures concerning cutting-edge research will also be given.*

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|---|---|---|
| 0101 | Zhengguo Xiao | Seats (Total: 40) |
| | TuTh 11:00am - 12:15pm | ANS 0408 |

**ANSC624 Recent Advances in Animal and Avian Sciences**

*Restriction: Must be an Animal Sciences graduate student. Credit only granted for: ANSC698C or ANSC624. Formerly: ANSC698C.*

*Seminar course in advanced animal science research.*

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|---|---|---|---|
| 0101 | Richard Kohn | Seats (Total: 25) | |
| | Tu 3:30pm - 4:45pm | ANS 0408 | |

**ANSC625** **Developing Presentation Skills**

*Restriction: Must be an Animal Sciences graduate student. Credit only granted for: ANSC625 or ANSC698D. Formerly: ANSC698D.*

*Seminar designed to teach oral presentation skills for animal science students.*

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|---|---|---|---|
| 0101 | Richard Kohn | Seats (Total: 20) | |
| | Tu 3:30pm - 4:45pm | ANS 0408 | |
| | Th 3:30pm - 4:45pm | ANS 0408 | Discussion |

**ANSC644** **Molecular and Cellular Endocrinology**

*Restriction: Must not have completed ANSC444. Credit only granted for: ANSC444,ANSC489I, ANSC644, or ANSC688I. Formerly: ANSC688I.*

*A comprehensive course covering the major endocrine systems in animals. Lecture topics include major endocrine axes, hormonal regulation of homeostasis, growth and reproduction, and endocrine mechanisms of action. Advanced concepts in the molecular and cell biology of hormone action and regulation addressed in weekly discussion sessions centered on current research publications in the field of molecular and cellular endocrinology.*

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|---|---|---|---|
| 0101 | Tom Porter | Seats (Total: 10) | |
| | TuTh 2:00pm - 3:15pm | ANS 0412 | |

**ANSC660** **Poultry Literature**

*Readings on individual topics are assigned. Written reports required. Methods of analysis and presentation of scientific material are discussed.*

**Contact department for information to register for this course.**

**ANSC688I** **Special Topics; Comparative Vertebrate Immunology**

*Lectures, experimental courses, and other special subjects in the fields of animal sciences and veterinary medicine.*

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|---|---|---|---|
| 0101 | Zhengguo Xiao | Seats (Total: 20) | |
| | TuTh 11:00am - 12:15pm | ANS 0408 | |
| | Contact instructor or department for details. | | |

**ANSC688M** **Special Topics; The Gut Microbiome**

*Lectures, experimental courses, and other special subjects in the fields of animal sciences and veterinary medicine.*

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|---|---|---|---|
| 0101 | Debabrata Biswas<br>TuTh 11:00am - 12:15pm | Seats (Total: 7)<br>ANS 0402 | |

**ANSC688O** **Special Topics; Advanced Nutritional Pathophysiology**

*Lectures, experimental courses, and other special subjects in the fields of animal sciences and veterinary medicine.*

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|---|---|---|---|
| 0101 | Younggeon Jin<br>TuTh 9:30am - 10:45am | Seats (Total: 10)<br>ANS 0402 | |

**ANSC699** **Special Problems in Animal Science**

(Perm req)

*Work assigned in proportion to amount of credit. Prerequisite: approval of staff. Problems will be assigned which relate specifically to the character of work the student is pursuing.*

**Contact department for information to register for this course.**

**ANSC799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**ANSC898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**ANSC899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# ANTH Anthropology Fall 2024

**ANTH210** **Introduction to Medical Anthropology and Global Health**

*An introduction to the central concepts in medical anthropology and the anthropology of global health. This course is a survey of anthropological notions of health, disease, and the body in cross-cultural and global contexts, including classic and contemporary texts. It will provide an examination of systems of knowledge and practice with regard to illness, healing, and global health inequities.*

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|---|---|---|---|
| 0101 | Andrea Lopez<br>TuTh 2:00pm - 2:50pm<br>F 9:00am - 9:50am | Seats (Total: 20)<br>ASY 2203<br>WDS 1131 | <br><br>Discussion |
| 0102 | Andrea Lopez<br>TuTh 2:00pm - 2:50pm<br>F 10:00am - 10:50am | Seats (Total: 20)<br>ASY 2203<br>WDS 1131 | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 0103 | Andrea Lopez<br>TuTh 2:00pm - 2:50pm<br>F 11:00am - 11:50am | Seats (Total: 20)<br>ASY 2203<br>WDS 1131 | Discussion |
| 0104 | Andrea Lopez<br>TuTh 2:00pm - 2:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 20)<br>ASY 2203<br>WDS 1131 | Discussion |
| 0105 | Andrea Lopez<br>TuTh 2:00pm - 2:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>ASY 2203<br>WDS 1131 | Discussion |
| 0106 | Andrea Lopez<br>TuTh 2:00pm - 2:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 20)<br>ASY 2203<br>WDS 1131 | Discussion |
| 0201 | Emilia Guevara<br>TuTh 11:00am - 12:15pm | Seats (Total: 60)<br>CHE 2108 | |

**ANTH222** **Introduction to Ecological and Evolutionary Anthropology**

*Credit only granted for: ANTH220 or ANTH222.*

*An introduction to the evolution of human physiology and human behavior, the relationship between hominid and non-hominid primates, and the study of relationships between a population of humans and their biophysical environment.*

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|---|---|---|---|
| 0101 | George Hambrecht<br>TuTh 9:30am - 10:45am<br>M 8:00am - 10:00am | Seats (Total: 20)<br>SHM 2102<br>WDS 0124B | Lab |
| 0102 | George Hambrecht<br>TuTh 9:30am - 10:45am<br>M 11:00am - 1:00pm | Seats (Total: 20)<br>SHM 2102<br>WDS 0124B | Lab |
| 0103 | George Hambrecht<br>TuTh 9:30am - 10:45am<br>M 2:00pm - 4:00pm | Seats (Total: 20)<br>SHM 2102<br>WDS 0124B | Lab |
| 0104 | George Hambrecht<br>TuTh 9:30am - 10:45am<br>W 8:00am - 10:00am | Seats (Total: 20)<br>SHM 2102<br>WDS 0124B | Lab |

| | | | |
|---|---|---|---|
| 0105 | George Hambrecht<br>TuTh 9:30am - 10:45am<br>W 11:00am - 1:00pm | Seats (Total: 20)<br>SHM 2102<br>WDS 0124B | <br><br>Lab |
| 0106 | George Hambrecht<br>TuTh 9:30am - 10:45am<br>W 2:00pm - 4:00pm | Seats (Total: 20)<br>SHM 2102<br>WDS 0124B | <br><br>Lab |

**ANTH240** **Introduction to Archaeology**

*Exploration of the variety of past human societies and cultures through archaeology, from the emergence of anatomically modern humans to the more recent historical past.*

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|---|---|---|---|
| 0101 | Stephen Brighton<br>MW 10:00am - 10:50am<br>F 9:00am - 9:50am | Seats (Total: 20)<br>PLS 1130<br>WDS 1102 | <br><br>Discussion |
| 0102 | Stephen Brighton<br>MW 10:00am - 10:50am<br>F 10:00am - 10:50am | Seats (Total: 20)<br>PLS 1130<br>WDS 1102 | <br><br>Discussion |
| 0103 | Stephen Brighton<br>MW 10:00am - 10:50am<br>F 11:00am - 11:50am | Seats (Total: 20)<br>PLS 1130<br>WDS 1102 | <br><br>Discussion |
| FC01 | Kyla Cools<br>MW 6:00pm - 7:15pm<br><br>*Restricted to students in Freshmen Connection.* | Seats (Total: 22)<br>KNI 1105 | |

**ANTH260** **Introduction to Sociocultural Anthropology and Linguistics**

*Culture and social relationships in a wide variety of settings from small-scale to complex societies. An overview of how anthropology analyzes human behavior. Particular attention to the relationship between language and culture.*

**Contact department for information to register for this course.**

**ANTH265** **Anthropology of Global Health**

*An overview of the growing field of global health including health care systems, medical practices, ideas about illness in cross-cultural contexts, issues of health development, global health inequity, and human rights issues. The course will focus on the history of global health, the critique of major international health agencies and their development paradigms, and the political economy of social inequalities and health.*

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|---|---|---|---|
| 0101 | Ampson Hagan<br>MW 10:00am - 10:50am<br>F 9:00am - 9:50am | Seats (Total: 18)<br>ASY 2309<br>ARC 1125 | Discussion |
| 0102 | Ampson Hagan<br>MW 10:00am - 10:50am<br>F 10:00am - 10:50am | Seats (Total: 18)<br>ASY 2309<br>ARC 1125 | Discussion |
| 0103 | Ampson Hagan<br>MW 10:00am - 10:50am<br>F 11:00am - 11:50am | Seats (Total: 18)<br>ASY 2309<br>ARC 1125 | Discussion |
| 0104 | Ampson Hagan<br>MW 10:00am - 10:50am<br>F 12:00pm - 12:50pm | Seats (Total: 18)<br>ASY 2309<br>JMZ 2125 | Discussion |
| 0105 | Ampson Hagan<br>MW 10:00am - 10:50am<br>F 1:00pm - 1:50pm | Seats (Total: 18)<br>ASY 2309<br>JMZ 2125 | Discussion |
| 0106 | Ampson Hagan<br>MW 10:00am - 10:50am<br>F 2:00pm - 2:50pm | Seats (Total: 18)<br>ASY 2309<br>JMZ 2125 | Discussion |
| FC01 | Emilia Guevara<br>TuTh 3:00pm - 4:15pm<br>Class time/details on ELMs<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>LEF 1220<br>ONLINE | Discussion |

**ANTH266** **Changing Climate, Changing Cultures**

*Explore past, present, and future interactions between humans and climate. Discussions, methods-oriented activities, and case study analyses provide students a foundation for appreciating the role of anthropology in understanding, responding to, and preparing for climate change.*

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|---|---|---|---|
| 0101 | Salvador Valdez-Ono<br>TuTh 3:30pm - 4:45pm | Seats (Total: 30)<br>BPS 1243 | |
| FC01 | Mark Auslander<br>Th 7:30pm - 8:45pm<br>Class time/details on ELMs<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 30)<br>SQH 1121<br>ONLINE | |

**ANTH299A** **Student Initiated Course; Introduction to Data Analytics for Anthropology**

*Student Initiated Course (STIC) in Anthropology. Course is student initiated and taught under close supervision of a faculty mentor.*

This student-led course will teach about the foundations of information technology, as well as the basics of the Python programming language and Structured Query Language, and how to tie all these concepts together to gather and interpret large genetic data sets effectively.

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|---|---|---|
| 0101 | Miguel Vilar | Seats (Total: 12) |
| | MW 4:00pm - 4:50pm | WDS 0124B |

**ANTH305** **Archaeological Methods and Practice**

*Prerequisite: ANTH240, ARTH200, CLAS180, or CLAS190. Cross-listed with: ARTH305, CLAS305, JWST319Y. Credit only granted for: ANTH305, ARTH305, CLAS305, or JWST319Y.*

*A team-taught, interdisciplinary course discussing theories, methods, and ethical issues in the practice of archaeology.*

| | | |
|---|---|---|
| 0101 | Christian Cloke | Seats (Total: 35) |
| | TuTh 2:00pm - 3:15pm | SQH 1121 |

**ANTH322** **Method and Theory in Ecological Anthropology**

*Prerequisite: ANTH220 or ANTH222. Restriction: Must be in a major within the BSOS-Anthropology department. Credit only granted for: ANTH320, ANTH322, ANTH425, or ANTH625.*

*A theoretical consideration of ecological anthropology, focusing on issues related to cooperation, the management of common property, resilience, and sustainability. Explores the methods of sociocultural anthropology, including ethnology, evolutionary game theory and agent-based modeling; and natural-science approaches including behavioral and systems ecology.*

| | | |
|---|---|---|
| 0101 | Miguel Vilar | Seats (Total: 30) |
| | TuTh 11:00am - 12:15pm | WDS 1114 |

**ANTH323** **Plagues, Pathogens and Public Policy**

*Credit only granted for: ANTH429A or ANTH323. Formerly: ANTH429A.*

*The impact of diseases on populations from prehistoric times through the present will be examined, along with public perceptions of disease, scientific breakthroughs on treatment and prevention, and the ways that politics and public health policies can enhance or impede the advancement of disease treatment. The natural history of disease, population structure, and immunity will be discussed. The class will address emerging and re-emerging diseases and the ways that first responders, researchers, and policy makers may affect the outcome of an outbreak.*

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|---|---|---|
| FC01 | Emilia Guevara | Seats (Total: 22) |
| | TuTh 4:30pm - 5:45pm | LEF 1220 |
| | *Restricted to students in Freshmen Connection.* | |

**ANTH340** **Method and Theory in Archaeology**

*Prerequisite: ANTH240. Restriction: Must be in Anthropology program; or permission of BSOS-Anthropology department.*

*Theory, method, and practice which guides modern anthropological archaeology. Includes research design and execution (from survey through excavation and interpretation), the reconstruction of aspects of past cultures, and the understanding of cultural change and meaning.*

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|---|---|---|
| 0101 | Paul Shackel | Seats (Total: 30) |
| | MW 11:00am - 12:15pm | WDS 0104 |

**ANTH358A** **Undergraduate Teaching Assistant; Undergraduate Teaching Assistant in Archaeology**

(Perm req)

*Individual instruction course: contact department or instructor to obtain section and index numbers.*

**Contact department for information to register for this course.**

**ANTH358B** **Undergraduate Teaching Assistant; Undergraduate Teaching Assistant in Bio-Anthropology**

(Perm req)

*Individual instruction course: contact department or instructor to obtain section and index numbers.*

**Contact department for information to register for this course.**

**ANTH358C** **Undergraduate Teaching Assistant; Undergraduate Teaching Assistant in Cultural Anthropology**

(Perm req)

*Individual instruction course: contact department or instructor to obtain section and index numbers.*

**Contact department for information to register for this course.**

**ANTH386** **Experiential Learning**

(Perm req)

*Recommended: Completion of advanced courses in relevant subfield of anthropology recommended. Restriction: Permission of BSOS-Anthropology department; and junior standing or higher; and must be in Anthropology program.*

**Contact department for information to register for this course.**

**ANTH398A** **Independent Study; Research Problems**

(Perm req)

*Independent interdisciplinary research and reading in specific areas of anthropology.*

**Contact department for information to register for this course.**

**ANTH398C** **Independent Study; The Mediterranean World**

*Independent interdisciplinary research and reading in specific areas of anthropology.*

**Contact department for information to register for this course.**

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**ANTH398E** **Independent Study; Bodies and Burials**

*Independent interdisciplinary research and reading in specific areas of anthropology.*

**Contact department for information to register for this course.**

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**ANTH398G** **Independent Study; Ethnicity, Race and Nationality in Europe**

*Independent interdisciplinary research and reading in specific areas of anthropology.*

**Contact department for information to register for this course.**

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**ANTH398H** **Independent Study; Social Anthropology of Britain (Honors)**

*Independent interdisciplinary research and reading in specific areas of anthropology.*

**Contact department for information to register for this course.**

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**ANTH398I** **Independent Study; Great Kingdoms of Ancient Near East**

*Independent interdisciplinary research and reading in specific areas of anthropology.*

**Contact department for information to register for this course.**

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**ANTH398J** **Independent Study; Archaeology Practicum**

*Independent interdisciplinary research and reading in specific areas of anthropology.*

**Contact department for information to register for this course.**

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**ANTH398K** **Independent Study; Archaeology of Roman Identity**

*Independent interdisciplinary research and reading in specific areas of anthropology.*

**Contact department for information to register for this course.**

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**ANTH398L** **Independent Study; Social Anthropology of Britain**

*Independent interdisciplinary research and reading in specific areas of anthropology.*

**Contact department for information to register for this course.**

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**ANTH412** **Hypermarginality and Urban Health**

*Credit only granted for: ANTH412 or ANTH612.*

*Using perspectives from medical and urban anthropology, we examine the phenomenon of hypermarginality--the clustering of extreme poverty, chronic disease, addiction, violence and trauma in certain social and spatial contexts, often urban. We will explore both the broader social, political, and economic structures of exclusion that produce hypermarginality, as well as the illness experiences associated with these conditions. As we consider both social suffering and the related institutional responses, we will also discuss the role of anthropological approaches in national discussions about health inequities.*

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|---|---|---|
| 0101 | Andrea Lopez | Seats (Total: 20) |
| | TuTh 12:30pm - 1:45pm | WDS 1114 |

**ANTH415** **Critical Global Health**

*Recommended: ANTH210, ANTH310, or ANTH265 or a similar course focused on global health or medical anthropology course. Jointly offered with: ANTH615. Credit only granted for: ANTH415 or ANTH615.*

*Extends understandings of diverse health conditions facing world populations today and the science being made around them. Critically examines key issues in global aid and public health, with an emphasis on the theories, concepts, and methods of anthropology.*

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|---|---|---|
| 0101 | Matthew Thomann | Seats (Total: 20) |
| | TuTh 2:00pm - 3:15pm | WDS 1114 |

**ANTH425** **Molecular Anthropology**

*Prerequisite: ANTH210, 222, 240, 260 or permission of the department. Jointly offered with: ANTH625. Credit only granted for: ANTH425 or ANTH625.*

*It's in your DNA! Learn how scientists use genetic approaches in both modern and ancient DNA studies, to better understand human evolution, adaptation, diversity, and animal and plant domestication. DNA provides insight into the history of populations, global migrations and demographic events, and how we as a species have adapted to changing environments and the burdens of disease.*

| | | |
|---|---|---|
| 0101 | Miguel Vilar | Seats (Total: 20) |
| | TuTh 2:00pm - 3:15pm | WDS 0104 |

**ANTH440** **Theory and Practice of Historical Archaeology**

*Prerequisite: ANTH240.  Jointly offered with ANTH640.  Credit only granted for: ANTH440 or ANTH640.*

*Historical archaeology enhances cultural heritage by providing voice for groups who were often unable to record their own histories, such as women, laborers, working class families, and enslaved people. The course provides insight into issues related to race, gender, and ethnicity as they relate to multicultural histories.*

| | | |
|---|---|---|
| 0101 | Paul Shackel | Seats (Total: 20) |
| | M 1:00pm - 3:45pm | WDS 0104 |

**ANTH451** **Environmental Archaeology**

*Credit only granted for: ANTH451, ANTH651, ANTH448F, ANTH668F. Formerly: ANTH448F.*

*An overview of modern environmental archaeology as a tool for the interdisciplinary investigation of past and present global change and to engage the long term past with current issues of sustainability and rapid environmental change.*

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|---|---|---|
| 0101 | George Hambrecht | Seats (Total: 20) |
| | TuTh 12:30pm - 1:45pm | WDS 0104 |

**ANTH476** **Senior Research**

(Perm req)

*Restriction: Must be in Anthropology program. Credit only granted for: ANTH476 or ANTH486.*

*Capstone course in which students pursue independent research into a current problem in anthropology, selected with assistance of a committee of faculty. Research leads to the writing of a senior thesis in anthropology.*

**Contact department for information to register for this course.**

**ANTH477** **Senior Thesis**

(Perm req)

*Prerequisite: ANTH476. Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program. Credit only granted for: ANTH477 or ANTH487.*

*Capstone course in which students write a senior thesis on independent research into a current problem in anthropology. The thesis is defined before a committee of faculty.*

**Contact department for information to register for this course.**

**ANTH485** **Honors Research Preparation**

(Perm req)

*Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program; and must be admitted to University Honors Program or Anthropology Honors Program.*

*Honors Research Preparation is an independent study course during which the Honors candidate will work with their Honors Thesis Advisor to establish not only the structure of the thesis and timeline, but also the formation of Thesis Review Committee.*

**Contact department for information to register for this course.**

**ANTH486** **Honors Research**

(Perm req)

*Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program; and must be admitted to University Honors Program or Anthropology Honors Program. Credit only granted for: ANTH486 or ANTH476.*

*Capstone course in which students pursue independent research into a current problem in anthropology, selected with assistance of a committee of faculty. Research leads to the writing of an honors thesis in anthropology.*

**Contact department for information to register for this course.**

**ANTH487** **Honors Thesis**

(Perm req)

*Prerequisite: ANTH486. Restriction: Permission of BSOS-Anthropology department; and must be in Anthropology program; and must be admitted to University Honors Program or Anthropology Honors Program. Credit only granted for: ANTH487 or ANTH477.*

*Capstone course in which students write a thesis on the results of independent research into a current problem in anthropology.*

**Contact department for information to register for this course.**

**ANTH601** **Applied Anthropology**

*An overview of the history and current practices of applied anthropology. This includes relationships between applied anthropology and other major subfields of the profession; the interdisciplinary and public context of applied anthropology; and problems of significance, utility, and ethics associated with applied anthropology.*

Offered fall only. For ANTH majors only.

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|---|---|---|
| 0101 | Matthew Thomann<br>M 4:00pm - 6:40pm | Seats (Total: 19)<br>WDS 1127 |

**ANTH606** **Qualitative Methods in Applied Anthropology**

*An introduction to the use of ethnography and qualitative methods in applied and policy contexts. Qualitative methods discussed include informal and systematic approaches. Students undertake fieldwork in local settings to practice the qualitative methods and to develop analysis and report writing skills.*

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|---|---|---|
| 0101 | Christina Getrich<br>Th 11:00am - 1:45pm | Seats (Total: 19)<br>JMZ 1103 |

**ANTH612** **Hypermarginality and Urban Health**

*Jointly offered with ANTH412. Credit only granted for: ANTH412 or ANTH612.*

*Using perspectives from medical and urban anthropology, we examine the phenomenon of hypermarginality--the clustering of extreme poverty, chronic disease, addiction, violence and trauma in certain social and spatial contexts, often urban. We will explore both the broader social, political, and economic structures of exclusion that produce hypermarginality, as well as the illness experiences associated with these conditions. As we consider both social suffering and the related institutional responses, we will also discuss the role of anthropological approaches in national discussions about health inequities.*

| | | |
|---|---|---|
| 0101 | Andrea Lopez<br>TuTh 12:30pm - 1:45pm | Seats (Total: 10)<br>WDS 1114 |

**ANTH615** **Critical Global Health**

*Jointly offered with: ANTH415. Credit only granted for: ANTH415 or ANTH615.*

*Extends understandings of diverse health conditions facing world populations today and the science being made around them. Critically examines key issues in global aid and public health, with an emphasis on the theories, concepts, and methods of anthropology.*

| | | |
|---|---|---|
| 0101 | Matthew Thomann | Seats (Total: 10) |
| | TuTh 2:00pm - 3:15pm | WDS 1114 |

**ANTH620 Environment and Society**

*Cross-listed with: MEES620. Credit only granted for: ANTH620 or MEES620. Additional information: Offered over the interactive video network.*

*Students will obtain foundational knowledge of core theories and methods that integrate cultural and socio-economic research into environmental science. Key topics include: coupled natural and human systems, cultural models of the environment, social networks, ecological economics, political ecology, environmental justice, and science communication.*

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|---|---|---|
| 0101 | Matthew Houser, Matthew Gray | Seats (Total: 20) |
| | Th 2:00pm - 4:45pm | Location: TBA |

**ANTH625 Molecular Anthropology**

*Jointly offered with: ANTH425. Credit only granted for: ANTH425 or ANTH625.*

*It's in your DNA! Learn how scientists use genetic approaches in both modern and ancient DNA studies, to better understand human evolution, adaptation, diversity, and animal and plant domestication. DNA provides insight into the history of populations, global migrations and demographic events, and how we as a species have adapted to changing environments and the burdens of disease.*

| | | |
|---|---|---|
| 0101 | Miguel Vilar | Seats (Total: 10) |
| | TuTh 2:00pm - 3:15pm | WDS 0104 |

**ANTH640 Advanced Studies in Theory and Practice of Historical Archaeology**

*Jointly offered with ANTH440.  Credit only granted for: ANTH440 or ANTH6 40.*

*Historical archaeology enhances cultural heritage by providing voice for groups who were often unable to record their own histories, such as women, laborers, working class families, and enslaved people. The course provides insight into issues related to race, gender, and ethnicity as they relate to multicultural histories.*

| | | |
|---|---|---|
| 0101 | Paul Shackel | Seats (Total: 10) |
| | M 1:00pm - 3:45pm | WDS 0104 |

**ANTH655 Introduction to Museum Scholarship**

*Cross-listed with: AMST655, HIST610, INST653. Credit only granted for: AMST655, ANTH655, HIST610, INST728T or INST653.*

*Provides students a basic understanding of museums as cultural and intellectual institutions. Topics include the historical development of museums, museums as resources for scholarly study, and the museum exhibition as medium for presentation of scholarship.*

| | | |
|---|---|---|
| 0201 | Diana Marsh | Seats (Total: 30) |
| | Th 2:00pm - 4:40pm | TWS 0205 |

**ANTH688A** **Current Developments in Anthropology**

(Perm req)

*Detailed investigation of a current problem or research technique, the topic to be chosen in accordance with faculty interests and student needs.*

**Contact department for information to register for this course.**

**ANTH689A** **Special Problems in Anthropology**

(Perm req)

**Contact department for information to register for this course.**

**ANTH701** **Anthropology Internship Preparation**

*Preparation for internship includes practicum training in development, presentation and evaluation of position papers, proposals and work plans; literature search and use of secondary data sources in decision making the effect cultural analysis and resource management; ethics and professional development for work in non-academic settings.*

**Contact department for information to register for this course.**

**ANTH712** **Anthropology Internship Analysis**

(Perm req)

*Prerequisite: ANTH789.*

*The preparation and presentation of internship results, and the development of skills in report writing and presentation. Includes the completion of a professional quality report or publishable paper based on the internship experience.*

**Contact department for information to register for this course.**

**ANTH741** **Introduction to Cultural and Heritage Resource Management**

*Restriction: Must be in the Cultural and Heritage Resource Management Master or Post-Baccalaureate Certificate of Professional Studies Programs; or by permission of the Anthropology department.*

*An introduction to the field of cultural and heritage resource management. Examines existing international, national, and local frameworks for the protection of cultural heritage. Provides an overview of employment opportunities and ethical responsibilities within the profession.*

| | | |
|---|---|---|
| PLA1 | Matthew Palus | Seats (Total: 25) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Cultural & Heritage Resource Management program. All other graduate students must request permission. Contact exst@umd.edu Golden ID students are not eligible for this section.* | |
| PLA2 | Matthew Palus | Seats (Total: 25) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |

**ANTH743** **Community Engagement and Consultation**

*Restriction: Must be in the Cultural and Heritage Resource Management Program (CHRM); or by permission of the Anthropology department.*

*A grounding in cultural communication and sensitivity to community, cultural, and stakeholder needs within and beyond project specific confines. Using the broader context of practicing anthropology in the exploration of communication styles, learning styles, and cultural biases and taboos, students are exposed to underlying concepts concerning inter-cultural communication so that they may develop more collaborative approaches to research. The program also provides background in the development of public outreach programs in the context of cultural and heritage resource management.*

| | | |
|---|---|---|
| PLA1 | Marie Archambeault | Seats (Total: 20) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Cultural & Heritage Resource Management program. All other graduate students must request permission. Contact exst@umd.edu Golden ID students are not eligible for this section.* | |

**ANTH747** **Business of CRM**

*Restriction: Must be in the Cultural and Heritage Resource Management Masters Program (MPCH) or certificate (Z121) ; or by permission of the Anthropology department.*

*An overview of the skills necessary for success in managing a CRM program. Students will learn how CRM organizations market and manage clients, prepare and submit budgets and proposals, and coordinate technical staff to successfully complete projects. Topics will address the range of issues that owners and managers are confronted with in their oversight of projects, including the management of employees, ethics and professional responsibilities, ensuring health and safety, and meeting the many contractual obligations of CRM projects.*

| | | |
|---|---|---|
| PLA1 | Lyle Torp | Seats (Total: 20) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Cultural & Heritage Resource Management program. All other graduate students must request permission. Contact exst@umd.edu Golden ID students are not eligible for this section.* | |

**ANTH749** **Cultural and Heritage Resource Management Internship**

*An internship/practicum that would contribute to students' understanding of the overall process of CHRM. Students who are already working in CRM or a closely related field may use their employment as their practicum if the opportunity is available for them to learn beyond their current job duties.*

| | | |
|---|---|---|
| PLA1 | Matthew Palus | Seats (Total: 20) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Cultural & Heritage Resource Management program. All other graduate students must request permission. Contact exst@umd.edu Golden ID students are not eligible for this section.* | |

**ANTH751** **Project Management**

*Restriction: Must be in the Cultural and Heritage Resource Management Master's Program (MPCH) or certificate (Z121) ; or by permission of the Anthropology department.*

*This capstone class for the MPS in CHRM provides students with a grounding in the critical thinking processes necessary during each stage of the CRM process. It provides students with insights into the processes used as research questions are translated into data and then into an evaluative report. Students review examples of appropriate and inappropriate technical reports and then analyze the reports to understand the thinking processes necessary for project management to provide the client with the documentation necessary for completing the compliance process.*

| | | |
|---|---|---|
| PLA1 | Kelly Hockersmith | Seats (Total: 20) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Cultural & Heritage Resource Management program. All other graduate students must request permission. Contact exst@umd.edu Golden ID students are not eligible for this section.* | |

**ANTH752** **Introduction to GIS for CRM**

*Builds foundational competence for using geographical information systems (GIS) in the field of cultural resources management (CRM), including a basic understanding of how to work in ArcGIS, and the types of data analysis and presentation that are possible within GIS applications.*

| | | |
|---|---|---|
| PLA1 | Michael Konzak | Seats (Total: 20) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Cultural & Heritage Resource Management program. All other graduate students must request permission. Contact exst@umd.edu Golden ID students are not eligible for this section.* | |

**ANTH760** **Development of Social/Cultural Theory**

*A broad perspective of the history of social cultural theory in anthropology and the critical skills needed for understanding the subdiscipline is provided. An overview of the history of theorizing about society and culture will help outline the past, present, and future of anthropology and its relations with other scientific and humanistic disciplines.*

For Anth majors only.

| | | |
|---|---|---|
| 0101 | Kathryn Lafrenz Samuels | Seats (Total: 19) |
| | W 11:00am - 1:45pm | TYD 1101 |

**ANTH788** **Internship Research**

(Perm req)

*This course augments ANTH 789 and is graded in conjunction with it.*

**Contact department for information to register for this course.**

**ANTH789** **Internship**

(Perm req)

*Individual instruction course supervised by a department faculty member.*

**Contact department for information to register for this course.**

**ANTH799** **Master's Thesis Research**

| | | |
|---|---|---|
| PLA1 | Matthew Palus | Seats (Total: 20) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Cultural & Heritage Resource Management program. All other graduate students must request permission. Contact exst@umd.edu Golden ID students are not eligible for this section.* | |

**ANTH857** **Museum Scholarship Practicum**

(Perm req)

*Prerequisite: AMST856, ANTH856, or HIST810. Restriction: Permission of Museum Scholarship Program required. Cross-listed with: AMST857, HIST811, INST787. Credit only granted for: AMST857, ANTH857, HIST811, INST728I or INST787.*

*Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.*

| | | | |
|---|---|---|---|
| IM01 | Paul Jaeger<br>Contact instructor or department for details. | Seats (Total: 12) | |

**ANTH898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**ANTH899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# AOSC Atmospheric and Oceanic Science Fall 2024

**AOSC123** **Causes and Consequences of Global Change**

*Cross-listed with: GEOL123. Credit only granted for: AOSC123, GEOG123, or GEOL123.*

*Study of the major components of Earth's climate system and climate change history. Discussion of 21st century climate change prediction, mitigation and adaptation efforts.*

| | | | |
|---|---|---|---|
| 0101 | Jeffrey Henrikson<br>MW 5:00pm - 5:50pm<br>F 11:00am - 11:50am | Seats (Total: 30)<br>ESJ 2212<br>ATL 2416 | <br><br>Discussion |
| 0102 | Jeffrey Henrikson<br>MW 5:00pm - 5:50pm<br>F 10:00am - 10:50am | Seats (Total: 30)<br>ESJ 2212<br>ATL 2416 | <br><br>Discussion |

**AOSC200** **Weather and Climate**

*Prerequisite: MATH107, MATH110, or MATH115. Recommended: Concurrent enrollment in AOSC201.*

*What are weather and climate? Most people think they know but if you ask people to explain the differences and similarities you're bound to get a range of answers. Weather affects not just our daily activities but other important aspects of society such as transportation, commerce, security and agriculture. Most people understand what weather is to some extent. Climate and climate change are concepts that evoke strong emotional responses from people but are less well understood. In this class, students examine fundamental issues such as the greenhouse effect, severe weather, and global weather patterns and how they relate to a changing climate. Instruction in the lectures will provide the basic knowledge needed to understand these issues. In the discussion sections, students will be divided into groups to address the implications of these topics through group projects.*

| | | | |
|---|---|---|---|
| 0101 | Timothy Canty<br>TuTh 12:30pm - 1:45pm<br>W 1:00pm - 1:50pm | Seats (Total: 30)<br>ATL 2324<br>ATL 2416 | <br><br>Discussion |
| 0102 | Timothy Canty<br>TuTh 12:30pm - 1:45pm<br>W 2:00pm - 2:50pm | Seats (Total: 30)<br>ATL 2324<br>ATL 2416 | <br><br>Discussion |
| 0103 | Timothy Canty<br>TuTh 12:30pm - 1:45pm<br>W 3:00pm - 3:50pm | Seats (Total: 30)<br>ATL 2324<br>ATL 2416 | <br><br>Discussion |
| 0201 | Jeffrey Henrikson<br>TuTh 2:00pm - 3:15pm<br>W 2:00pm - 2:50pm | Seats (Total: 30)<br>ATL 2324<br>ATL 2428 | <br><br>Discussion |
| 0202 | Jeffrey Henrikson<br>TuTh 2:00pm - 3:15pm<br>W 3:00pm - 3:50pm | Seats (Total: 30)<br>ATL 2324<br>ATL 2428 | <br><br>Discussion |
| 0203 | Jeffrey Henrikson<br>TuTh 2:00pm - 3:15pm<br>M 1:00pm - 1:50pm | Seats (Total: 30)<br>ATL 2324<br>ATL 2416 | <br><br>Discussion |
| 0204 | Jeffrey Henrikson<br>TuTh 2:00pm - 3:15pm<br>M 2:00pm - 2:50pm | Seats (Total: 30)<br>ATL 2324<br>ATL 2416 | <br><br>Discussion |
| 0301 | Alexandra Jones<br>TuTh 11:00am - 12:15pm<br>Tu 4:00pm - 4:50pm | Seats (Total: 30)<br>ATL 2324<br>ATL 2416 | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 0302 | Alexandra Jones<br>TuTh 11:00am - 12:15pm<br>F 1:00pm - 1:50pm | Seats (Total: 30)<br>ATL 2324<br>ATL 2416 | <br><br>Discussion |

**AOSC200C** **Weather and Climate**

*Prerequisite: MATH107, MATH110, or MATH115. Recommended: Concurrent enrollment in AOSC201.*

*What are weather and climate? Most people think they know but if you ask people to explain the differences and similarities you're bound to get a range of answers. Weather affects not just our daily activities but other important aspects of society such as transportation, commerce, security and agriculture. Most people understand what weather is to some extent. Climate and climate change are concepts that evoke strong emotional responses from people but are less well understood. In this class, students examine fundamental issues such as the greenhouse effect, severe weather, and global weather patterns and how they relate to a changing climate. Instruction in the lectures will provide the basic knowledge needed to understand these issues. In the discussion sections, students will be divided into groups to address the implications of these topics through group projects.*

| | | | |
|---|---|---|---|
| 0104 | Timothy Canty<br>TuTh 12:30pm - 1:45pm<br>W 9:00am - 9:50am | Seats (Total: 30)<br>ATL 2324<br>ATL 2416 | <br><br>Discussion |
| | *Restricted to students in Carillon Communities. Once registered, students need an electronic stamp from an advisor to drop the course.* | | |

**AOSC201** **Weather and Climate Laboratory**

*Corequisite: AOSC200.*

*Laboratory exercises to supplement AOSC200, including weather observations, weather map analysis, forecasting practice and climate modeling.*

Students must pay a $60.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 0101 | Sarah Loughran<br>Tu 3:30pm - 5:30pm | Seats (Total: 26)<br>ATL 3426 | <br>Lab |
| 0102 | Emily Hunt<br>W 10:00am - 12:00pm | Seats (Total: 26)<br>ATL 3426 | <br>Lab |
| 0103 | Katharina Gallmeier<br>F 10:00am - 12:00pm | Seats (Total: 26)<br>ATL 3426 | <br>Lab |
| 0104 | Sarah Loughran<br>W 4:00pm - 6:00pm | Seats (Total: 26)<br>ATL 3426 | <br>Lab |

| | | | |
|---|---|---|---|
| 0105 | Sunny Sharma<br>M 2:00pm - 4:00pm | Seats (Total: 26)<br>ATL 3426 | Lab |
| 0106 | Emily Hunt<br>M 4:00pm - 6:00pm | Seats (Total: 26)<br>ATL 3426 | Lab |
| 0107 | Peter H'Doubler<br>M 10:00am - 12:00pm | Seats (Total: 26)<br>ATL 3426 | Lab |
| 0108 | Katharina Gallmeier<br>F 2:00pm - 4:00pm | Seats (Total: 26)<br>ATL 3426 | Lab |

**AOSC375** **Introduction to the Blue Ocean**

*Prerequisite: MATH120 or higher. Recommended: MATH121, MATH141, PHYS161, or PHYS171. Cross-listed with: GEOL375. Credit only granted for: AOSC375 or GEOL375.*

*The global ocean is a major component of the Earth System that shapes life on earth, including our weather and climate. We explore the observation-based interdisciplinary science of oceanography, identifying its strong connections to related sciences like meteorology, and geography. We apply this developing understanding to environmental issues such as marine pollution, fish and fisheries, as well as to climate variability and to the changes to the marine environment that are resulting from steadily rising levels of atmospheric greenhouse gasses. Focusses include the biogeochemical and physical changes we can observe in the nearby Chesapeake Bay and the coastal waters of Eastern Shore, Maryland.*

| | | |
|---|---|---|
| 0101 | James Carton<br>MWF 11:00am - 11:50am | Seats (Total: 60)<br>ATL 2324 |

**AOSC399** **Independent Study in Academic Peer Mentoring**

(Perm req)

*Earn academic credit for the time spent supporting an AOSC course in the Academic Peer Mentoring Program (AMP).*

**Contact department for information to register for this course.**

**AOSC400** **Physical Meteorology**

*Prerequisite: 1 course with a minimum grade of C- from (PHYS171, PHYS161, MATH141); or permission of CMNS-Atmospheric & Oceanic Science department.*

*The application of basic classical physics, chemistry and mathematics to the study of the atmosphere. Composition of the atmosphere; energy sources and sinks (radiation in the atmosphere; radiative balance and radiative forcing of atmospheric processes); atmospheric thermodynamics; clouds and precipitation physics; atmospheric electricity and optics; mesoscale processes (e.g., orographic mesoscale phenomena and instabilities); air mass boundaries; severe weather, tropical cyclones; storms; global circulation.*

| | | |
|---|---|---|
| 0101 | Maria Molina<br>MWF 12:00pm - 12:50pm | Seats (Total: 32)<br>ATL 2428 |

**AOSC420** **Physical Oceanography**

*Prerequisite: MATH141 and PHYS141. Recommended: AOSC200. Also offered as: GEOL670, AOSC670. Credit only granted for: AOSC420, AOSC670, or GEOL670.*

*Ocean observations. Water masses, sources of deep, intermediate, and surface water. Mass, heat, and salt transport, and the meridional overturning circulation. Geochemical tracers and cycles, including carbon. Western boundary currents, mixed layers, and processes maintaining the thermocline. Coastal and estuarine processes. Surface waves and tides. the ocean's role in climate.*

| | | |
|---|---|---|
| 0101 | Jacob Wenegrat<br>TuTh 2:00pm - 3:15pm | Seats (Total: 15)<br>ATL 2416 |

**AOSC431** **Atmospheric Thermodynamics**

*Prerequisite: 1 course with a minimum grade of C- from (PHYS171, PHYS161, MATH141). Recommended: MATH246.*

*Classical thermodynamics applied to both the dry and the moist atmosphere. Composition; phase changes of water; stability concepts; Properties of aerosols and clouds, cloud nucleation and precipitation processes, atmospheric electricity, cloud and precipitation chemistry.*

| | | |
|---|---|---|
| 0101 | Ning Zeng<br>MWF 10:00am - 10:50am | Seats (Total: 24)<br>ATL 2316 |
| AM01 | Ning Zeng<br>MWF 10:00am - 10:50am | Seats (Total: 1)<br>ATL 2316 |

**AOSC470** **Synoptic Meteorology**

*Prerequisite: Minimum grade of C- in AOSC431 and AOSC432. Credit only granted for: AOSC470, AOSC600, or METO600.*

*Atmospheric properties and observations, meteorological analysis and charts, operational numerical forecasts. Application of quasigeostrophic theory, baroclinic instability, midlatitiude and mesoscale weather systems. Tropical meteorology. Weather forecasting using numerical and statistical models. Prediction of weather phenomena on the global, syoptic, meso, and local scales. Analysis of surface and upper air data; Norwegian cyclone model; introduction to weather forecasting.*

| | | |
|---|---|---|
| 0101 | Jonathan Poterjoy<br>TuTh 9:30am - 10:45am | Seats (Total: 20)<br>ATL 2416 |

**AOSC493** **Senior Research Project I**

*Prerequisite: Permission of CMNS-Atmospheric & Oceanic Science department. Restriction: Must be in Atmospheric and Oceanic Science program; or permission of instructor.*

*Technical writing and oral presentation skills. Planning, writing, and presenting a plan for research in the geosciences.*

| | | |
|---|---|---|
| 0101 | Timothy Canty, Alexandra Jones<br>MWF 2:00pm - 2:50pm | Seats (Total: 20)<br>ATL 3408 |

**AOSC494** **Atmospheric and Oceanic Science Seminar**

(Perm req)

*Prerequisite: Minimum grade of C- in AOSC431 and AOSC432. Restriction: Permission of the Atmospheric and Oceanic Science Department.*

*Exposure to a wide range of contemporary topics in atmospheric, oceanic, and climate sciences, to foster research interests and promote critical thinking through the weekly AOSC departmental seminar series.*

| | | |
|---|---|---|
| 0101 | Louis Uccellini<br>Th 3:30pm - 5:00pm | Seats (Total: 50)<br>ATL 2400 |

**AOSC498** **Senior Research Project II**

(Perm req)

*The project will be based on the research or development plan created in AOSC493. It may be completed with the approval of a faculty advisor in conjunction with an internship. Final written thesis and oral defense will be expected.*

**Contact department for information to register for this course.**

**AOSC499** **Special Problems in Atmospheric Science**

*Research or special study in the field of meteorology and the atmospheric and oceanic sciences.*

**Contact department for information to register for this course.**

**AOSC600** **Synoptic Meteorology I**

*Prerequisite: AOSC610.*

*Atmospheric properties and observations, meteorological analysis and charts, operational numerical forecasts. Application of quasigeostrophic theory, baroclinic instability, midlatitude and mesoscale weather systems. Tropical meteorology.*

| | | |
|---|---|---|
| 0101 | Jonathan Poterjoy<br>TuTh 9:30am - 10:45am | Seats (Total: 10)<br>ATL 2416 |

| | | |
|---|---|---|
| AM01 | Jonathan Poterjoy<br>TuTh 9:30am - 10:45am | Seats (Total: 1)<br>ATL 2416 |

**AOSC610** **Dynamics of the Atmosphere and Ocean I**

*Prerequisite: Must have completed or be concurrently enrolled in MATH462; or students who have taken courses with comparable content may contact the department.*

*Equations of motion and their approximation, scale analysis for the atmosphere and the ocean. Conservation properties. Fluid motion in the atmosphere and oceans. Circulation and vorticity, geostrophic motion and the gradient wind balance. Turbulence and Ekman Layers.*

| | | |
|---|---|---|
| 0101 | Da-Lin Zhang<br>MWF 12:00pm - 12:50pm | Seats (Total: 30)<br>ATL 2416 |
| AM01 | Da-Lin Zhang<br>MWF 12:00pm - 12:50pm | Seats (Total: 1)<br>ATL 2416 |

**AOSC620** **Physics and Chemistry of the Atmosphere I**

*Prerequisite: MATH461; or students who have taken courses with comparable content may contact the department.*

*Air parcel thermodynamics and stability; constituent thermodynamics and chemical kinetics. Cloud and aerosol physics and precipitation processes.*

| | | |
|---|---|---|
| 0101 | Russell Dickerson<br>TuTh 11:00am - 12:15pm | Seats (Total: 25)<br>ATL 2416 |
| AM01 | Russell Dickerson<br>TuTh 11:00am - 12:15pm | Seats (Total: 1)<br>ATL 2416 |

**AOSC652** **Analysis Methods in Atmospheric and Oceanic Science**

*Prerequisite: PHYS141 and MATH241; or students who have taken courses with comparable content may contact the department. Recommended: AMSC460, CMSC660, AMSC660, or CMSC460.*

*A variety of the analysis methods used by atmospheric and oceanic scientists will be applied to observational data sets such as Vostok ice core record, temperature trends, and satellite measurements of ozone,sea ice, etc. in a hands-on, computer laboratory setting. Students will be exposed to Fortran and Python as well as modern file formats such as HDF and netCDF. No prior programming experience required.*

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|---|---|---|
| 0101 | Jeffrey Henrikson<br>TuTh 5:30pm - 7:30pm | Seats (Total: 24)<br>ATL 3426 |

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|---|---|---|
| 0201 | Jeffrey Henrikson<br>Class time/details on ELMs | Seats (Total: 30)<br>ONLINE |
| AM01 | Jeffrey Henrikson<br>TuTh 5:30pm - 7:30pm | Seats (Total: 1)<br>ATL 3426 |
| AM02 | Jeffrey Henrikson<br>Class time/details on ELMs | Seats (Total: 1)<br>ONLINE |

**AOSC670** **Physical Oceanography**

*Prerequisite: Permission of CMNS-Atmospheric & Oceanic Science department; or permission of CMNS-Geology department. Cross-listed with: GEOL670. Credit only granted for: GEOL670, AOSC670 or AOSC420.*

*Ocean observations. Water masses, sources of deep water. Mass, heat, and salt transport, geochemical tracers. Western boundary currents, maintenance of the thermocline. Coastal and estuarine processes. Surface waves and tides. Ocean climate.*

| | | |
|---|---|---|
| 0101 | Jacob Wenegrat<br>TuTh 2:00pm - 3:15pm | Seats (Total: 11)<br>ATL 2416 |
| AM01 | Jacob Wenegrat<br>TuTh 2:00pm - 3:15pm | Seats (Total: 1)<br>ATL 2416 |

**AOSC680** **Introduction to Earth System Science**

*An introduction to the study of the earth as a system: atmosphere, oceans, land, cryosphere, solid earth, and humans. Cycling of materials and energy in the earth system: the energy cycle, the hydrologic cycle, the carbon cycle, the nitrogen cycle. Climate processes and variability: land-atmosphere, ocean-atmosphere, biosphere-climate, and human interactions, short- and long-term variability in climate.*

| | | |
|---|---|---|
| 0101 | Ross Salawitch<br>TuTh 2:00pm - 3:15pm | Seats (Total: 20)<br>ATL 2316 |
| AM01 | Ross Salawitch<br>TuTh 2:00pm - 3:15pm | Seats (Total: 1)<br>ATL 2316 |

**AOSC798** **Directed Graduate Research**

*Directed graduate research in atmospheric and oceanic science.*

**Contact department for information to register for this course.**

**AOSC898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**AOSC899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# ARAB Arabic Fall 2024

**ARAB101** **Elementary Arabic I**

*Introduction to modern standard Arabic in both its spoken and written form. Equal emphasis on all four skill areas: speaking, listening, reading, and writing.*

| | | |
|---|---|---|
| 0101 | Lutf Alkebsi<br>MWF 10:00am - 10:50am | Seats (Total: 10)<br>HJP 3142 |
| 0201 | Samah Al-salami<br>MWF 12:00pm - 12:50pm | Seats (Total: 10)<br>HJP 3142 |
| 0301 | Lutf Alkebsi<br>TuTh 11:00am - 12:15pm | Seats (Total: 10)<br>HJP 2118 |

**ARAB190** **Introduction to Arab Cultures & Societies**

*Provides an introduction to key topics related to the study of the Arabic-speaking world, including features of Arab identity in the Middle East & North Africa as well as in the diaspora. Addresses religious, racial, and ethnic diversity, the history of language and culture, political economy, and migration. Students will learn about the diverse cultures and societies that have formed the changing conceptions of the Arab world through history and across different geographies. A fundamental premise is that the "Arab world" is not a monolithic, unchanging, bounded region "over there," but has long been deeply intertwined with other societies, including our own. Taught in English.*

| | | |
|---|---|---|
| 0101 | Valerie Anishchenkova<br>MW 2:00pm - 3:15pm | Seats (Total: 15)<br>HJP 2118 |

**ARAB204** **Intermediate Modern Standard Arabic I**

*Prerequisite: ARAB105; and must have appropriate World Language Placement Test (FLPT) score. Restriction: Must not be a fluent/native speaker of Arabic.*

*Covers topics related to contemporary Arabic society, literature and culture in standard written and formal spoken Arabic. Acquisition of more complex grammatical structures, expanding vocabulary, and reading, to develop a better understanding of the formal aspects of using MSA.*

| | | |
|---|---|---|
| 0101 | Samah Al-salami<br>MWF 10:00am - 11:50am | Seats (Total: 10)<br>HJP 2118 |

**ARAB206** **Egyptian Colloquial Arabic I**

*Prerequisite: ARAB205; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not be a fluent/native speaker of Arabic.*

*Develops communicative skills and cultural knowledge in Egyptian Arabic. Focuses on various social interactions, work and school situations, as well as specifics of pronunciation and grammar of the Egyptian dialect. Designed for students who have completed two years of the regular Arabic sequence classes (104-105 and 204-205) or equivalent.*

Prerequisite: ARAB205.

| | | |
|---|---|---|
| 0101 | Valerie Anishchenkova | Seats (Total: 10) |
| | MW 3:30pm - 4:45pm | HJP 3142 |

**ARAB225 Roots and Patterns: Verb Meaning in Arabic**

*Prerequisite: ARAB102; or must have appropriate World Language Placement Test (WLPT) score. Credit only granted for: ARAB499K or ARAB225. Formerly: ARAB499K. Additional information: No prior linguistic training is required, but an interest in language and linguistics is assumed.*

*Examines the templatic morphology of the Arabic verb system, and asks what the workings of such a system tell us about the way that humans construct and encode meaning. Moves beyond the traditional labels that are used to name the different categories of Arabic verb, to explore the conceptual structures that are coded linguistically by the various verb patterns.*

| | | |
|---|---|---|
| 0101 | Ahmed Hanafy | Seats (Total: 10) |
| | TuTh 9:30am - 10:45am | HJP 2118 |

**ARAB250 Food Cultures in the Global Middle East**

*Credit only granted for: ARAB250 or ARAB499C. Formerly: ARAB499C.*

*Food is the stuff of everyday routine and rich symbolic meaning, from holiday meals to daily staples. Studying food offers new perspectives on modernization, colonialism, and nationalism, and illuminates popular experiences of major historical events. This course introduces students to the history and cultures of the modern Middle East and North Africa using secondary literature and primary source materials addressing the sources and methods used in humanistic food studies scholarship. Students will gain a nuanced understanding of the diversity and complexities of the region as well as a lens for analyzing its cultures and societies from an everyday human perspective.*

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|---|---|---|
| 0101 | Anny Gaul | Seats (Total: 30) |
| | MW 3:30pm - 4:45pm | JMZ 2122 |

**ARAB304 Advanced Modern Standard Arabic I**

*Prerequisite: ARAB205; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not be a fluent/native speaker of Arabic. Formerly: ARAB301.*

*Advanced grammar, reading, writing, speaking in Arabic; study of contemporary Arabic society, politics, and culture.*

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|---|---|---|
| 0101 | Lutf Alkebsi<br>TuTh 2:00pm - 3:15pm | Seats (Total: 10)<br>HJP 3142 |

**ARAB322** **Arabic for Daily Life II**

*Prerequisite: ARAB202; or equivalent, or must have appropriate World Language Placement Test (WLPT) score.*

*Develops students' speaking and listening abilities in both formal Arabic and a dialect, aiming to bring them to the advanced low level in speaking. Focus on activating vocabulary and grammar structures, speaking at the paragraph level, self-correction, and using both formal and informal registers of Arabic.*

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|---|---|---|
| 0101 | Ahmed Hanafy<br>MWF 11:00am - 11:50am | Seats (Total: 10)<br>HJP 3142 |

**ARAB398M** **Special Topics in Arabic Studies; Making of Middle Eastern Identities**

*In-depth study of a particular aspect of Arabic culture, literature, and language. Specific topic to be announced when offered. Taught in Arabic.*

Cross-listed with HIST319Y. Credit only granted for ARAB398M or HIST319Y. Taught in English.

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|---|---|---|
| 0101 | Rachel Schine<br>MW 3:30pm - 4:45pm | Seats (Total: 15)<br>HJP 2114 |

**ARAB399E** **Independent Study In Arabic; The Language of the Quran and Hadith**

(Perm req)

*Research and writing or specific readings on a topic selected by the student and supervised by a faculty member on the Department of Arabic Studies. To be planned during semester preceding registration.*

Deepens understanding of the Quran and Hadith through focus on practical reading skills and discussion of content. Assumes basic reading ability in Arabic, perhaps gained through exposure to the Quran.

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| 0101 | Lutf Alkebsi<br>TuTh 12:30pm - 1:45pm | Seats (Total: 15)<br>HJP 3142 |

**ARAB499Z** **Special Topics in Arabic Studies; Moroccan Society and Culture**

(Perm req)

*In-depth study of particular aspect of Arabic culture, literature and language. Specific topic to be announced when course is offered.*

Prerequisite: ARAB305 and permission of department. Introduction to the history, politics and social life of Morocco. Engages students with Moroccan dialect.

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|---|---|---|---|
| 0101 | Ahmed Hanafy<br>TuTh 11:00am - 12:15pm | Seats (Total: 15)<br>HJP 3135 | |

**ARAB628A** **Special Topics in Arabic Studies; Arabic Audiovisual Discourses**

*In-depth study of a particular aspect of Arabic Studies. Topics to be announced when course if offered. Taught in Arabic.*

**Contact department for information to register for this course.**

# ARCH Architecture Fall 2024

**ARCH170** **Design Thinking and Architecture**

*Examines conceptual, perceptual, behavioral, and technical aspects of the built environment, and methods of analysis, problem-solving, and design implementation.*

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|---|---|---|---|
| 0101 | William Wyllie<br>W 9:00am - 9:50am<br>Contact instructor or department for details.<br>F 9:00am - 9:50am | Seats (Total: 19)<br>ARC 0204<br>ASY 3217 | Discussion |
| 0102 | William Wyllie<br>W 9:00am - 9:50am<br>Contact instructor or department for details.<br>F 9:00am - 9:50am | Seats (Total: 19)<br>ARC 0204<br>EDU 2101 | Discussion |
| 0103 | William Wyllie<br>W 9:00am - 9:50am<br>Contact instructor or department for details.<br>F 9:00am - 9:50am | Seats (Total: 19)<br>ARC 0204<br>EDU 2102 | Discussion |
| 0105 | William Wyllie<br>W 9:00am - 9:50am<br>Contact instructor or department for details.<br>F 12:00pm - 12:50pm | Seats (Total: 19)<br>ARC 0204<br>KNI 1206 | Discussion |
| FC01 | Michael Abrams<br>MW 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 27)<br>ASY 1213 | |

**ARCH171** **Design Thinking and Making in Architecture**

(Perm req)

*Restriction: Must be a major in ARCH-Architecture Program; and must be a freshman; or have permission of the School of Architecture, Planning and Preservation.*

*Examines iterative design processes and critical thinking skills through active learning and design thinking methodologies to solve problems and apply design as a lens of inquiry and exploration. Students will understand Design Thinking through interactive and experiential learning.*

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|---|---|---|
| 0101 | Kenneth Filler<br>MF 9:00am - 10:15am | Seats (Total: 50)<br>ARC 1103 |
| 0102 | Kenneth Filler<br>MF 10:30am - 11:45am | Seats (Total: 48)<br>ARC 1103 |

**ARCH201** **Elements and Principles of Architecture**

(Perm req)

*Restriction: Must be in a major in ARCH-Architecture Program.*

*Survey of fundamental elements and principals of architecture and architectural education. Frames study of architecture as a profession, discipline and critical practice.*

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|---|---|---|
| 0101 | Brian Kelly<br>M 11:00am - 11:50am | Seats (Total: 120)<br>Location: TBA |

**ARCH226** **History of World Architecture II**

*Post-1500 - History of Architecture survey course - History of Architecture structured to develop critical thinking and visually literacy with regard to the worldwide legacy of design thinking and building innovation in architecture*

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|---|---|---|
| 0101 | Juan Burke<br>TuTh 9:30am - 10:45am | Seats (Total: 120)<br>TMH 0301 |

**ARCH270** **Design in Practice**

*Case studies and hands-on design projects ranging in scale from a product to a building to give students insight into the process by which architects work both individually and collaboratively to put disciplinary knowledge and expertise into practice to shape our built environment.*

*A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE). Click here for more information on the Fearless Ideas Courses.*

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|---|---|---|
| 0101 | Adam Ainslie<br>TuF 11:00am - 12:15pm | Seats (Total: 50)<br>Location: TBA |
| 0201 | Madlen Simon<br>TuTh 12:30pm - 1:45pm<br>*Restricted to students in Carillon Communities. Once registered, students need an electronic stamp from an advisor to drop the course.* | Seats (Total: 45)<br>ESJ 2101 |

**ARCH271** **People, Planet, and Profit: Building Sustainable Places**

*Cross-listed with: RDEV250. Credit only granted for: ARCH271 or RDEV250.*

*An introduction to the four disciplines represented in the School: architecture and urban design, community planning, historic preservation, and real estate development, that work to create a more sustainable environment for the future to create a more sustainable environment for the future using our interpretation of the quadruple bottom line: socio-cultural, economic, environmental, and design sustainability. Students will be provided with an understanding of the fundamental scholarship and processes of each of these disciplines and examine the intersections between them. Additionally, they will learn by applying the approaches of the four disciplines through a series of field studies.*

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| 0101 | Wayne Curtis<br>TuTh 3:30pm - 4:45pm | Seats (Total: 150)<br>ARC 0204 | |

**ARCH300** **Design Media and Representation II**

(Perm req)

*Prerequisite: ARCH200; or permission of ARCH-Architecture Program. Restriction: Must be in a major in ARCH-Architecture Program.*

*Study of architectural representation in physical and digital design media. Examine visual communications and speculative visual studies through applied drawing, modeling and making to explore expanded roles of representation in design and design thinking.*

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|---|---|---|---|
| 0101 | Adan Ramos, Peter Wilson<br>W 8:00am - 9:50am<br>W 10:00am - 11:50am | Seats (Total: 20)<br>Location: TBA<br>Location: TBA | <br><br>Discussion |
| 0102 | Adan Ramos, Peter Wilson<br>W 8:00am - 9:50am<br>W 12:00pm - 1:50pm | Seats (Total: 25)<br>Location: TBA<br>Location: TBA | <br><br>Discussion |
| 0103 | Adan Ramos, Peter Wilson<br>W 8:00am - 9:50am<br>W 10:00am - 11:50am | Seats (Total: 20)<br>Location: TBA<br>Location: TBA | <br><br>Discussion |
| 0104 | Adan Ramos, Peter Wilson<br>W 8:00am - 9:50am<br>W 12:00pm - 1:50pm | Seats (Total: 25)<br>Location: TBA<br>Location: TBA | <br><br>Discussion |
| 0105 | Adan Ramos, Peter Wilson<br>W 8:00am - 9:50am<br>W 10:00am - 11:50am | Seats (Total: 20)<br>Location: TBA<br>Location: TBA | <br><br>Discussion |

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|---|---|---|---|
| 0107 | Adan Ramos, Peter Wilson<br>W 8:00am - 9:50am<br>W 10:00am - 11:50am | Seats (Total: 20)<br>Location: TBA<br>Location: TBA | <br><br>Discussion |

**ARCH386** **Experiential Learning**

(Perm req)

*Restriction: Must have learning proposal approved by faculty sponsor and student's internship sponsor; and sophomore standing or higher; and permission of ARCH-Architecture Program.*

*Learning experience tied to internship of specified duration with targeted learning outcomes.*

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|---|---|---|
| 0101 | Kristen Stack<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ARCH401** **Architecture Design Studio II**

(Perm req)

*Prerequisite: Minimum grade of C- in ARCH400. Restriction: Must be in Architecture (B.S.) program.*

*Continuation of ARCH 400 with introduction to building typology, urban and contextual issues, design of the vertical surface, and architectural interiors.*

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|---|---|---|
| 0101 | Michael Abrams<br>MWF 2:00pm - 5:20pm<br>Contact instructor or department for details. | Seats (Total: 80)<br>Location: TBA |

**ARCH403** **Architecture Design Studio IV**

(Perm req)

*Prerequisite: Minimum grade of C- in ARCH402. Restriction: Must be in Architecture (B.S.) program.*

*Investigations into the relationship between the man-made and the natural world including introductory issues of assembly and material value. Design of the site and the building are combined into an integral process delimiting and probing the boundaries of each and exploring their reciprocal relationship. The architect's obligations to the natural and urban contexts are explored in many dimensions including historical, typological, environmental, and physical.*

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|---|---|---|
| 0101 | Marcus Cross<br>MWF 2:00pm - 5:20pm<br>Contact instructor or department for details. | Seats (Total: 80)<br>Location: TBA |

**ARCH404** **Graduate Architecture Design Studio I**

(Perm req)

*Recommended: For 3 1/2 year graduate students only. Restriction: Must be in Architecture (Master's) program.*

*Introduction to architectural design with particular emphasis on conventions and principles of architecture , visual and verbal communication skills, formal analysis, design process, spatial composition, architectural promenade, basic program distribution, and elementary constructional and environmental responses. Offered fall only.*

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|---|---|---|
| 0101 | Kenneth Filler | Seats (Total: 12) |
| | MWF 2:00pm - 5:20pm<br>Contact instructor or department for details. | Location: TBA |

**ARCH406** **Graduate Architecture Design Studio III**

(Perm req)

*Prerequisite: Minimum grade of C- in ARCH405. Restriction: Must be in Architecture (Master's) program.*

*Investigations into the relationship between the man-made and the natural world including introductory issues of assembly and material value. Design of the site and the building are combined into an integral process delimiting and probing the boundaries of each and exploring their reciprocal relationship. The architect's obligations to the natural and urban contexts are explored in many dimensions including historical, typological, environmental, and physical.*

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|---|---|---|
| 0101 | Madlen Simon | Seats (Total: 16) |
| | MWF 2:00pm - 5:20pm<br>Contact instructor or department for details. | Location: TBA |

**ARCH418F** **Selected Topics in Architectural Technology; Alternative Building Technologies**

(Perm req)

*Selected Topics in Architectural Technology*

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|---|---|---|
| 0101 | Jana VanderGoot | Seats (Total: 12) |
| | W 10:00am - 12:30pm | ARC 1101 |

**ARCH418J** **Selected Topics in Architectural Technology; Artificial Intelligence and Architecture: Background, Applications, and the Design Process**

(Perm req)

*Selected Topics in Architectural Technology*

| | | |
|---|---|---|
| 0101 | Hooman Koliji | Seats (Total: 30) |
| | F 10:00am - 12:00pm | ONLINE |

**ARCH419** **Independent Studies in Architectural Technology**

(Perm req)

*Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.*

**Contact department for information to register for this course.**

**ARCH426** **History of Architecture II**

(Perm req)

*Restriction: Permission of ARCH-Architecture Program. Credit only granted for: ARCH226 or ARCH426. Additional information: Graduate architecture history course requires additional recitation section and additional coursework tied to survey lectures.*

*Post-1500 - History of Architecture survey course - History of Architecture structured to develop critical thinking and visually literacy with regard to the worldwide legacy of design thinking and building innovation in architecture. Structured to nurture critical thinking and visually literacy with regard to the worldwide legacy of architecture. The work in the course will involve the evaluation of sources and arguments in reading architectural history. Architecture will be framed relative to ways of thinking, religious beliefs, cultural heritage, and cultural values.*

Offered fall only.

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|---|---|---|
| 0101 | Juan Burke<br>TuTh 9:30am - 10:45am | Seats (Total: 120)<br>TMH 0301 |

**ARCH428C** **Selected Topics in Architectural History; History of Structure and Construction**

(Perm req)

*Selected Topics in Architectural History*

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|---|---|---|
| 0101 | Joseph Williams<br>TuTh 11:00am - 12:15pm | Seats (Total: 27)<br>ARC 1105 |

**ARCH428H** **Selected Topics in Architectural History; The Seven Wonders of Spain**

*Selected Topics in Architectural History*

**Contact department for information to register for this course.**

**ARCH428K** **Selected Topics in Architectural History; Cities of the Early Modern Mediterranean**

(Perm req)

*Selected Topics in Architectural History*

The Mediterranean Sea forms a framework for exploring architecture and cities in the early modern period, focusing mainly on the 16th century and examining key cities such as Venice, Istanbul, Rome, Aleppo, Seville, Granada, with the aim of discovering parallels and contrasts between urban form, architecture, and society under Christian and Islamic rule. Themes include religious complexes as urban design, sociallife and public space, trade and commerce, building practices and cultures, and the impact of disaster (war, epidemics, earthquakes, fire)on urban form. Wider global connections such as the intertwined histories of coffee, sugar, and slaves will be considered. Students will learn different approaches to studying cities and architecture, along with methods for analyzing them in cross-cultural context through a mix of lectures, workshops, and discussions. Sustained attendance and engagement required.

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|---|---|---|
| 0101 | Michele Lamprakos<br>TuTh 2:00pm - 3:15pm | Seats (Total: 25)<br>ARC 1101 |

**ARCH428N** **Selected Topics in Architectural History; Medieval Architecture**

(Perm req)

*Selected Topics in Architectural History*

Prerequisite: ARCH225 and ARCH226. Jointly offered with ARCH628N. Credit only granted for: ARCH428N or ARCH628N. Medieval Europe and the Mediterranean produced a unique building culture in which design was flexible and deeply grounded in the act of construction. In this class, we will trace the diversity of Byzantine, Islamic, Romanesque and Gothic architecture through select case studies.Students will learn to unravel buildings in terms of phases of construction, relate each phase to a different social or political context, and describe the structural technologies that medieval masons rightly flaunted.

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|---|---|---|
| 0101 | Joseph Williams<br>TuTh 3:30pm - 4:45pm | Seats (Total: 27)<br>ARC 1101 |

**ARCH428W** **Selected Topics in Architectural History; Writing Architecture in Practice**

(Perm req)

*Selected Topics in Architectural History*

| | | |
|---|---|---|
| 0101 | Stefan Woehlke<br>TuTh 9:30am - 10:45am | Seats (Total: 40)<br>ARC 1101 |

**ARCH429** **Independent Studies in Architectural History**

(Perm req)

*Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.*

Prerequisite: permission of department.

**Contact department for information to register for this course.**

**ARCH430** **Measuring Sustainability in Architecture**

(Perm req)

*Credit only granted for: ARCH430 or ARCH418M. Formerly: ARCH418M.*

*Studies metrics of sustainability as included in rating standards, including LEED. All students will take the LEED GA test.*

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| 0101 | Ralph Bennett<br>TuTh 5:00pm - 6:15pm | Seats (Total: 90)<br>ARC 0204 |

**ARCH443** **Visual Communication For Architects**

(Perm req)

*Corequisite: ARCH400. Restriction: Must be in Architecture (Master's) program; and must be in the 3.5 year M. ARCH program.*

*Investigation of the relationship between drawing from life and architectural drawing, the conventions of architectural drawing and the role of architectural drawing as a means to develop, communicate, and generate architectural ideas.*

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|---|---|---|
| 0101 | Michael Abrams<br>M 10:00am - 12:40pm | Seats (Total: 12)<br>ARC 1125 |

**ARCH448M** **Selected Topics in Visual Studies in Architecture; Applied Model Making**

(Perm req)

*Selected Topics in Visual Studies in Architecture*

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|---|---|---|
| 0101 | William Wyllie<br>TuTh 12:30pm - 1:45pm | Seats (Total: 25)<br>Location: TBA |

**ARCH449** **Independent Studies in Visual Studies in Architecture**

(Perm req)

*Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.*

Prerequisite: permission of department.

**Contact department for information to register for this course.**

**ARCH458** **Selected Topics in Urban Design; Intro to Creative Placemaking: Practices & Principles**

(Perm req)

*Selected Topics in Urban Design*

This hybrid case-study based seminar is the introductory course for the Creative Place Making minor; it will introduce students to Creative Placemaking as a practice that leverages the power of the arts, culture, and design to support equitable, vibrant, and sustainable communities. Students will analyze Creative Placemaking initiatives around the United States that elevate our shared humanity and address critical challenges, such as conversations about racial injustice, inequitable development, climate change or celebrations of the diverse communities and cultures around us. Such projects enable us to consider and imagine ethical development practices, especially in underserved and historically marginalized neighborhoods. Students will explore a range of issues related to designing, planning, executing, and evaluating this work. Based on presentations from CP practitioners, they will create presentations to capture the ways that artists and designers in partnership with local culture bearers and knowledge keepers can play a vital role in shaping, keeping, and making a place.

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| 0101 | Ronit Eisenbach<br>TuTh 3:30pm - 4:45pm | Seats (Total: 20)<br>ARC 1103 |
| 0201 | Ronit Eisenbach<br>TuTh 3:30pm - 4:45pm<br>*Restricted to students enrolled in the Creative Placemaking minor.* | Seats (Total: 10)<br>ARC 1103 |

**ARCH459** **Independent Studies in Urban Design**

(Perm req)

*Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.*

**Contact department for information to register for this course.**

**ARCH460** **Site Analysis and Design**

(Perm req)

*Restriction: Must be in the Master of Architecture program; or permission of the School of Architecture, Planning and Preservation.*

*Principles and methods of site analysis; the influence of natural and man-made site factors on site design and architectural form.*

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|---|---|---|
| 0101 | Jana VanderGoot<br>F 9:30am - 12:00pm<br>*Principles and methods of site analysis; the influence of natural and man-made site factors on site design and architectural form. This is a graduate level course that is required for all students in the Master's of Architecture program.* | Seats (Total: 40)<br>ARC 1101 |

**ARCH462** **Methods & Materials of Building Construction**

(Perm req)

*Prerequisite: PHYS121 or equivalent; and MATH120 or MATH140 or equivalent; or permission of the ARCH-Architecture Program. Restriction: Must be in a major in undergraduate or graduate ARCH program or Construction Project Management Minor. Credit only granted for: ARCH410 or ARCH462.*

*Building Construction methods and materials are examined through case studies to explore the means and techniques applied to the material execution of buildings and BIM. Focus on an understanding of the organization of the design and construction process and awareness of building and zoning codes, material systems and types.*

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|---|---|---|
| 0101 | Michael Kleiss<br>TuTh 12:30pm - 1:45pm | Seats (Total: 120)<br>ARC 0204 |

**ARCH464** **Architectural Structures I**

(Perm req)

*Prerequisite: ARCH462, ARCH463, and PHYS121; and MATH120 or MATH140, or equivalent; or permission of the ARCH-Architecture Program. Corequisite: ARCH401 or ARCH406. Restriction: Must be in either BS in Architecture or M.Architecture Program. Credit only granted for: ARCH411 or ARCH464.*

*This course covers the basic principles of architectural structures, including the influence of geometric, sectional, and material properties related to flexure and shear in beam and framed systems; vector mechanics with application to analysis of trusses, catenaries, and arches; diagrammatic analysis of beams for bending moment, shear, and deflection as well as the study of structural framing systems for vertical and lateral loads.*

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|---|---|---|
| 0101 | Michael Kleiss<br>TuTh 11:00am - 12:15pm | Seats (Total: 80)<br>ARC 0204 |

**ARCH466** **Environmental Systems in Architecture**

(Perm req)

*Prerequisite: ARCH462 and ARCH463. Corequisite: ARCH403 or ARCH406. Restriction: Must be in either BS in Architecture or M. Architecture Program. Credit only granted for: ARCH413 or ARCH466.*

*Environmental systems in architecture presents the theory, quantification, and architectural design implications for heating ventilating and air conditioning, water and waste, fire protection, electricity, illumination, acoustics, and vertical transportation.*

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|---|---|---|
| 0101 | Deokoh Woo<br>TuTh 9:30am - 10:45am | Seats (Total: 90)<br>ARC 0204 |

**ARCH467** **Integrated Project Delivery**

(Perm req)

*Restriction: Must be in a major in ARCH-Architecture Program; or must be in Construction Project Management Minor.*

*Integrated Project Delivery is examined from design to implementation through an exploration of building construction, architectural design and construction management perspectives.*

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| 0101 | Kiley Wilfong Cullen<br>Th 5:00pm - 7:40pm | Seats (Total: 20)<br>TWS 1107 | |

**ARCH468P** **Selected Topics in Architecture; Resume and Portfolio Design**

(Perm req)

*Selected Topics in Architecture*

Restricted to students with 90 credits. Cross-listed with ARCH668P. Credit only granted for ARCH468P or ARCH668P.

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| 0101 | Eric Jenkins<br>M 10:00am - 12:30pm | Seats (Total: 15)<br>ARC 1123 | |

**ARCH470** **Computer Applications in Architecture**

(Perm req)

*Prerequisite: ARCH400; or permission of ARCH-Architecture Program.*

*Introduction to computer utilization, with emphasis on architectural applications.*

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| 0101 | Andressa Carmo Pena Martinez<br>Tu 7:00pm - 9:30pm<br>Th 7:00pm - 8:15pm | Seats (Total: 24)<br>ARC 1115<br>ARC 1115 | <br><br>Lab |

**ARCH472** **Building Information Modeling Communication and Collaboration**

(Perm req)

*Restriction: Must be in a major in ARCH-Architecture Program; or must be in the Construction Project Management Minor. Credit only granted for: ARCH678I or ARCH472. Formerly: ARCH678I.*

*Building Information Modeling is explored as pertains to collaboration and communication in the design and construction of buildings and building systems. Practical and empirical learning using BIM software and case studies of real world projects and construction scenarios.*

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|---|---|---|
| 0101 | Kiley Wilfong Cullen<br>WF 9:30am - 10:45am | Seats (Total: 24)<br>ARC 1115 |
| 0102 | Andressa Carmo Pena Martinez<br>WF 11:00am - 12:15pm | Seats (Total: 24)<br>ARC 1115 |

**ARCH478C** **Selected Topics in Architecture; Architecture and Cinema: Place and Film**

(Perm req)

*Selected Topics in Architecture*

This course explores the relationship between architecture and cinema, or more broadly, place and film. Students will explore the portrayal and use of architecture and place within the development of both early and contemporary film, across genres, and cultures.

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| 0101 | Peter Noonan<br>Th 7:00pm - 9:30pm | Seats (Total: 10)<br>ARC 1123 |

**ARCH478J** **Selected Topics in Architecture; Adaptation**

(Perm req)

*Selected Topics in Architecture*

This seminar investigates adaptation as both philosophy and practice. It explores adaptive processes at various scales (materials, buildings, cities, landscapes) and of various types (reuse, reframing, addition/subtraction, infill, preservation, recovery, erasure). Topics include memory and the artifact; building as palimpsest; obsolescence and renewal; adaptation and sustainability; new architecture in historic contexts; urban/suburban retrofits; and recovered landscapes. Students delve into case studies and theoretical writings, as well as the practical aspects of engaging in adaptive reuse and renovation. Involving close reading and discussion of complex texts, lectures, workshops, and individual and group research, this course requires sustained attendance and engagement.

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|---|---|---|
| 0101 | Michele Lamprakos<br>Tu 7:00pm - 9:40pm | Seats (Total: 10)<br>ASY 3215 |

**ARCH478L** **Selected Topics in Architecture; Modernisme: Art Nouveau Architecture Sketched and Explained**

*Selected Topics in Architecture*

**Contact department for information to register for this course.**

**ARCH478Z** **Selected Topics in Architecture; Environmental Psychology**

(Perm req)

*Selected Topics in Architecture*

Focuses on the role of design in human behavior, exploring people-place relationships centered on human physical, physiological, psychological, sociological, and intellectual responses to elements of the built environment.

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|---|---|---|
| 0101 | Debarati Majumdar Narayan<br>Th 2:00pm - 4:45pm | Seats (Total: 15)<br>KNI 1206 |

**ARCH479** **Independent Studies in Architecture**

(Perm req)

*Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.*

Prerequisite: permission of department.

**Contact department for information to register for this course.**

**ARCH489** **Independent Studies in Architectural Preservation**

(Perm req)

*Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.*

Prerequisite: permission of department.

**Contact department for information to register for this course.**

**ARCH600** **Integrated Design Studio V**

(Perm req)

*Corequisite: ARCH611. Restriction: Permission of ARCH-Architecture Program.*

*Integrated and comprehensive building and site design. Course content bridges the gap between design and technology, between practice and education, in a studio setting. Explorations include the integration of conceptual and technical aspects of architectural form and assembly, highlighting the ways in which multiple layers of a building design are developed, coordinated and resolved.*

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|---|---|---|
| 0101 | Brittany Williams, Daniel Curry, Julie Gabrielli<br>MWF 2:00pm - 5:20pm<br>Contact instructor or department for details. | Seats (Total: 30)<br>Location: TBA |

**ARCH611** **Advanced Architecture Technology Seminar**

(Perm req)

*Corequisite: ARCH600. Restriction: Permission of ARCH-Architecture Program.*

*Technology in design of buildings. Application of technological issues in building design; integration of technology in architecture; technology as a form determinant in architecture; other conceptual and philosophical issues related to the application of technology in the design, construction, and use of buildings.*

Offered fall only.

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|---|---|---|
| 0101 | Deokoh Woo<br>TuTh 5:00pm - 6:15pm | Seats (Total: 30)<br>ARC 1101 |

**ARCH618F** **Selected Topics in Architectural Technology; Alternative Building Technologies**

(Perm req)

*Selected Topics in Architectural Technology*

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|---|---|---|
| 0101 | Jana VanderGoot<br>W 10:00am - 12:30pm | Seats (Total: 12)<br>ARC 1101 |

**ARCH628C** **Selected Topics in Architectural History; History of Structure and Construction**

(Perm req)

*Graduate Selected Topics in Architectural History*

| | | |
|---|---|---|
| 0101 | Joseph Williams<br>TuTh 11:00am - 12:15pm | Seats (Total: 2)<br>ARC 1105 |

**ARCH628K** **Selected Topics in Architectural History; Cities of the Early Modern Mediterranean**

(Perm req)

*Graduate Selected Topics in Architectural History*

The Mediterranean Sea forms a framework for exploring architecture and cities in the early modern period, focusing mainly on the 16th century and examining key cities such as Venice, Istanbul, Rome, Aleppo, Seville, Granada, with the aim of discovering parallels and contrasts between urban form, architecture, and society under Christian and Islamic rule. Themes include religious complexes as urban design, sociallife and public space, trade and commerce, building practices and cultures, and the impact of disaster (war, epidemics, earthquakes, fire)on urban form. Wider global connections such as the intertwined histories of coffee, sugar, and slaves will be considered. Students will learn different approaches to studying cities and architecture, along with methods for analyzing them in cross-cultural context through a mix of lectures, workshops, and discussions. Sustained attendance and engagement required.

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| 0101 | Michele Lamprakos<br>TuTh 2:00pm - 3:15pm | Seats (Total: 4)<br>ARC 1101 |

**ARCH628N** **Selected Topics in Architectural History; Medieval Architecture**

(Perm req)

*Graduate Selected Topics in Architectural History*

Jointly offered with ARCH428N. Credit only granted for: ARCH428N or ARCH628N. Medieval Europe and the Mediterranean produced a unique building culture in which design was flexible and deeply grounded in the act of construction. In this class, we will trace the diversity of Byzantine, Islamic, Romanesque and Gothic architecture through select case studies.Students will learn to unravel buildings in terms of phases of construction, relate each phase to a different social or political context, and describe the structural technologies that medieval masons rightly flaunted.

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| 0101 | Joseph Williams<br>TuTh 3:30pm - 4:45pm | Seats (Total: 2)<br>ARC 1101 |

**ARCH629** **Graduate Independent Studies in Architectural History**

(Perm req)

*Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.*

**Contact department for information to register for this course.**

**ARCH655** **Urban Design Seminar**

(Perm req)

*Prerequisite: ARCH654; or permission of ARCH-Architecture Program. Credit only granted for: ARCH451 or ARCH655. Formerly: ARCH451.*

*Advanced investigation into problems of analysis and evaluation of the design of urban areas, spaces, and complexes with emphasis on physical and social considerations; effects of public policies through case studies. Field observations.*

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| 0101 | Juan Burke<br>F 9:30am - 12:00pm | Seats (Total: 10)<br>ARC 1123 |

**ARCH668P** **Advanced Selected Topics in Architecture; Resume and Portfolio Design**

*Graduate Selected Topics in Architecture.*

Cross-listed with ARCH468P. Credit only granted for ARCH468P or ARCH668P.

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| 0101 | Eric Jenkins<br>M 10:00am - 12:30pm | Seats (Total: 4)<br>ARC 1123 |

**ARCH678C** **Advanced Selected Topics in Architecture; Architecture and Cinema: Place and Film**

(Perm req)

*Graduate Selected Topics in Architecture.*

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| 0101 | Peter Noonan<br>Th 7:00pm - 9:30pm | Seats (Total: 10)<br>ARC 1123 |

**ARCH678J** **Advanced Selected Topics in Architecture; Adaptation**

(Perm req)

*Graduate Selected Topics in Architecture.*

This seminar investigates adaptation as both philosophy and practice. It explores adaptive processes at various scales (materials, buildings, cities, landscapes) and of various types (reuse, reframing, addition/subtraction, infill, preservation, recovery, erasure). Topics include memory and the artifact; building as palimpsest; obsolescence and renewal; adaptation and sustainability; new architecture in historic contexts; urban/suburban retrofits; and recovered landscapes. Students delve into case studies and theoretical writings, as well as the practical aspects of engaging in adaptive reuse and renovation. Involving close reading and discussion of complex texts, lectures, workshops, and individual and group research, this course requires sustained attendance and engagement.

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| 0101 | Michele Lamprakos<br>Tu 7:00pm - 9:40pm | Seats (Total: 10)<br>ASY 3215 |

**ARCH678Z** **Advanced Selected Topics in Architecture; Environmental Psychology**

(Perm req)

*Graduate Selected Topics in Architecture.*

Focuses on the role of design in human behavior, exploring people-place relationships centered on human physical, physiological, psychological, sociological, and intellectual responses to elements of the built environment.

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| 0101 | Debarati Majumdar Narayan<br>Th 2:00pm - 4:45pm | Seats (Total: 5)<br>KNI 1206 |

**ARCH679** **Advanced Independent Studies in Architecture; Independent Study in Architecture**

*Proposed work must have a faculty sponsor and receive approval of the Architecture Program Curriculum Committee.*

**Contact department for information to register for this course.**

**ARCH700** **Urban Design Studio VII**

(Perm req)

*Restriction: Permission of ARCH-Architecture Program.*

*Studio problems and theories concentrating on urbanism and urban design techniques. Issues and sites range from high density urban in-fill to suburban and greenfield development in American and other contexts. Studio theories explore such topics as Contextualism, Neo-Traditional design, Transit-Oriented Development, density, sustainable development building typology, and street design.*

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| 0101 | Georgeanne Matthews, Matthew Bell<br>Tu 1:00pm - 7:00pm<br>F 2:00pm - 8:00pm<br>Contact instructor or department for details. | Seats (Total: 19)<br>Location: TBA<br>Location: TBA |

**ARCH770** **Professional Practice of Architecture**

(Perm req)

*Restriction: Permission of ARCH-Architecture Program.*

*Project management, organizational, legal, economic and ethical aspects of architecture.*

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| 0101 | Andrew Pressman<br>M 11:15am - 1:50pm | Seats (Total: 30)<br>ARC 1105 |

**ARCH797** **Thesis Proseminar**

*Prerequisite: ARCH601.*

*Directed research and preparation of thesis program.*

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|---|---|---|
| 0101 | Julie Gabrielli, Hooman Koliji<br>M 8:30am - 11:00am | Seats (Total: 30)<br>ARC 1105 |

**ARCH798** **Thesis in Architecture**

(Perm req)

*Complements the research of ARCH 799, with presentation of the design research to student's thesis committee.*

**Contact department for information to register for this course.**

**ARCH799** **Master's Thesis Research**

*Development of master's thesis.*

Restricted to ARCH majors only.

**Contact department for information to register for this course.**

# AREC Agricultural and Resource Economics Fall 2024

**AREC200** **The Chesapeake Bay Ecosystem: Intersection of Science, Economics, and Policy**

*The Chesapeake Bay is one of the most studied and monitored ecosystems in the world. To develop effective policies to restore this system to a healthier status requires integrating what we know about the biological and physical properties of the system with our understanding of the human dimension. Issues such as achieving nutrient reduction goals, restoring healthy blue crab and oyster fisheries in the bay will be used to demonstrate how economics interacts with science to guide policies that can be effective in achieving Bay restoration goals.*

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| 0101 | Becky Epanchin-Niell<br>MW 10:00am - 10:50am<br>F 11:00am - 11:50am | Seats (Total: 35)<br>ESJ 2204<br>BPS 0283 | <br><br>Discussion |

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|---|---|---|---|
| 0102 | Becky Epanchin-Niell<br>MW 10:00am - 10:50am<br>F 11:00am - 11:50am | Seats (Total: 35)<br>ESJ 2204<br>ATL 1114 | Discussion |
| 0103 | Becky Epanchin-Niell<br>MW 10:00am - 10:50am<br>F 10:00am - 10:50am | Seats (Total: 35)<br>ESJ 2204<br>ATL 1114 | Discussion |
| 0104 | Becky Epanchin-Niell<br>MW 10:00am - 10:50am<br>F 10:00am - 10:50am | Seats (Total: 35)<br>ESJ 2204<br>BPS 0283 | Discussion |

**AREC241** **Environment, Economics and Policy**

*Credit only granted for: AREC240 or AREC241.*

*How can economics help us understand modern environmental problems and design better policies to solve them? This course studies the relationship between the economy, environment and policy. The importance of production, consumption, externalities, property rights and public goods in environmental issues is examined. Technological and incentive-based solutions are considered. Students will apply these concepts to evaluate current controversial environmental problems.*

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| 0101 | Lars Olson<br>TuTh 2:00pm - 3:15pm<br>W 2:00pm - 2:50pm | Seats (Total: 36)<br>MMH 1304<br>HBK 0105 | Discussion |
| | *Restricted to students in Carillon Communities. Once registered, students need an electronic stamp from an advisor to drop the course.* | | |

**AREC250** **Elements of Agricultural and Resource Economics**

*Credit only granted for: AREC240 or AREC250.*

*An introduction to economic principles of production, marketing, agricultural prices and incomes, farm labor, credit, agricultural policies, and government programs.*

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| 0101 | Billie Ray<br>MWF 1:00pm - 1:50pm | Seats (Total: 80)<br>SYM 0200 | |

**AREC306** **Farm Management and Sustainable Food Production**

*The organization and operation of farm businesses are explored through principles of management, financial analysis, production economics, marketing, and business planning. These farm management principles are presented in the context of a sustainable food production system.*

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| 0101 | Dale Johnson<br>MW 3:30pm - 4:45pm | Seats (Total: 50)<br>EGR 0108 | |

**AREC326** **Intermediate Applied Microeconomics**

*Prerequisite: ECON200, AREC250, or AREC240; and ECON201. And MATH120, MATH130, MATH136, or MATH140; or must have completed MATH220. Credit only granted for: ECON306, ECON326, AREC489M, or AREC326. Formerly: AREC489M.*

*Deepens and broadens your ability to apply rigorous economic analysis skills to a broad range of problems.*

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| 0101 | Neslihan Uler | Seats (Total: 35) |
| | TuTh 9:30am - 10:45am | SYM 0215 |

**AREC345** **Global Poverty and Economic Development**

*This interdisciplinary course explores social and economic development around the world. Topics include geography, democratization, political instability and conflict, health and education, agricultural development, micro-entrepreneurship, and an introduction to impact evaluation methods used to evaluate the efficacy of public policy aimed at alleviating poverty.*

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| 0101 | Jing Cai | Seats (Total: 28) |
| | TuTh 2:00pm - 3:15pm | SYM 0209 |

**AREC365** **World Hunger, Population, and Food Supplies**

*An introduction to the problem of world hunger and possible solutions to it. World demand, supply, and distribution of food. Alternatives for leveling off world food demand, increasing the supply of food, and improving its distribution. Environmental limitations to increasing world food production.*

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|---|---|---|
| 0101 | Maria Soppelsa | Seats (Total: 161) |
| | TuTh 11:00am - 12:15pm | ESJ 2208 |

**AREC380** **Data Science for Environmental and Resource Economics**

*Prerequisite: AREC240, AREC241, AREC250, or ECON200.*

*An introduction to principles of data science using modern, open source software tools with applications to important problems in environmental, energy and resource economics. Topics include data wrangling, exploratory data analysis and visualization, modeling, forecasting, practices for reproducible research, and communication of results.*

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| 0101 | James Archsmith | Seats (Total: 24) |
| | TuTh 11:00am - 12:15pm | SYM 0115 |

**AREC386** **Experiential Learning**

(Perm req)

*Prerequisite: Permission of AGNR-Agricultural & Resource Economics department. Restriction: Junior standing or higher.*

**Contact department for information to register for this course.**

**AREC388** **Honors Thesis Research**

(Perm req)

*Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.*

**Contact department for information to register for this course.**

**AREC399** **Special Problems**

*Concentrated reading and study in some phase of a problem in agricultural and/or natural resource economics.*

**Contact department for information to register for this course.**

**AREC427** **Commodity Pricing and Markets**

*Prerequisite: ECON326 or AREC326; or students who have taken courses with comparable content may contact the department.*

*Economic theory as applied to the marketing of agricultural commodities. How commodity prices vary with current demand and production, and how prices are linked over time, across space, and across grades. The role played by contractual arrangements, cooperative marketing, vertical integration, and governmental policies in commodity marketing strategies.*

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| 0101 | James MacDonald | Seats (Total: 35) |
| | MWF 1:00pm - 1:50pm | SYM 0215 |

**AREC430** **Introduction to Agricultural and Resource Law**

*Prerequisite: ECON326 or AREC326. Credit only granted for: AREC430 or AREC489K. Formerly: AREC489K.*

*Survey of law with emphasis on problems and applications related to agricultural and natural resource economics. The course emphasizes strategies for managing legal risk arising from ownership, management, and use of agricultural resources. Students will get practical information to utilize in personal or professional settings. Contract law, constitutional law, tort law, property law, real estate transactions, business organization, estate planning, and debtor.*

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| 0101 | Paul Goeringer | Seats (Total: 80) |
| | MWF 10:00am - 10:50am | SYM 0200 |

**AREC445** **Agricultural Development, Population Growth and the Environment**

*Prerequisite: ECON326 or AREC326; or students who have taken courses with comparable content may contact the department.*

*Development theories, the role of agriculture in economic development, the agricultural policy environment, policies impacting on rural income and equity, environmental impacts of agricultural development.*

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| 0101 | Cory Smith<br>TuTh 12:30pm - 1:45pm | Seats (Total: 35)<br>MMH 1304 |

**AREC447** **The Economy of China**

*Prerequisite: AREC326, ECON306, or ECON326.*

*An introductory survey course of economic development in China with emphasis on understanding the process of economic reform in mainland China since 1978.*

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| 0101 | Jing Cai<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>SYM 0200 |

**AREC453** **Natural Resources and Public Policy**

*Prerequisite: AREC326, ECON306, or ECON326; and (BMGT230 or ECON230). Restriction: Must be in one of the following programs (Agricultural and Resource Economics; Agricultural and Resource Economics: Agribusiness; Agricultural and Resource Economics: Environmental and Resource Economics; Economics Bachelor of Arts; Environmental Science & Policy-Env Economics; Social Data Science-Economics; Economics minor). Cross-listed with: ECON453. Credit only granted for: AREC453 or ECON453.*

*Rational use and reuse of natural resources. Theory, methodology, and policies concerned with the allocation of natural resources among alternative uses. Optimum state of conservation, market failure, safe minimum standard, and cost-benefit analysis.*

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| 0101 | Erik Lichtenberg<br>TuTh 2:00pm - 3:15pm | Seats (Total: 36)<br>ESJ B0320 |

**AREC455** **Economics of Land Use**

*Prerequisite: 1 course with a minimum grade of C- from (AREC326, ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, ECON321, BMGT230). Cross-listed with: ECON485. Credit only granted for: AREC455 or ECON485.*

*Fundamentals of location theory. Microeconomics of land use decisions, including determination of rent and hedonic pricing models. Impacts of government decisions on land use, including regulation (e.g., zoning), incentives (transferable development rights), provision of public services, and infrastructure investments. Impacts of land use on environmental quality, including issues relating to sprawl, agricultural land preservation, and other topics of special interest.*

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| 0101 | David Newburn<br>TuTh 3:30pm - 4:45pm | Seats (Total: 80)<br>SYM 0200 |

**AREC481** **Environmental Economics**

*Prerequisite: 1 course with a minimum grade of C- from (AREC326, ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, ECON321, BMGT230). Restriction: Must be in one of the following programs (Agricultural and Resource Economics; Agricultural and Resource Economics: Agribusiness; Agricultural and Resource Economics: Environmental and Resource Economics; Economics Bachelor of Arts; Environmental Science & Policy-Env Economics; Social Data Science-Economics; Economics minor). Cross-listed with: ECON481. Credit only granted for: ECON481 or AREC481.*

*An exploration of the use of economic incentives for protection of the environment and the determination of appropriate (or efficient) level of environmental quality. Also covers the choice of policy instruments for the attainment of environmental standards.*

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| 0101 | Maureen Cropper | Seats (Total: 38) | |
| | MW 3:30pm - 4:45pm | TYD 2106 | |

**AREC620 Optimization in Agricultural and Resource Economics**

*Prerequisite: Must have completed Multivariate calculus and matrix or linear algebra.*

*Mathematical theory of static and dynamic optimization as applied to the economics of agriculture, natural resources and the environment. Topics include necessary and sufficient conditions for constrained optimization, convexity and concavity, duality and the envelope theorem, comparative statics, fixed point theorems, optimal control theory and dynamic programming.*

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| 0101 | Lars Olson | Seats (Total: 25) | |
| | W 3:00pm - 5:45pm | SYM 0209 | |
| | W 9:45am - 11:00am | SYM 0115 | Discussion |

**AREC623 Applied Econometrics I**

*Prerequisite: Introductory statistics or econometrics, linear algebra, and differential/calculus; or permission of instructor. Additional information: Intended for first-year Ph.D. students from AREC, BUFN, ECON, EDMS, EDUC, PLCY and URSP departments with a background in introductory statistics or econometrics.*

*A modern introduction to empirical strategies in applied microeconomic research in public policy, development economics, labor economics, education, marketing and corporate finance. Emphasis on causal reasoning and design-driven identification in the social sciences. Concepts and applications will focus on addressing economically meaningful causal questions. Basic theoretical and mathematical aspects of probability and statistics will be developed to assess the significance of the relationship among economic variables. Topics include: the approximation of the conditional expectation function through a linear predictor (Ordinary Least Squares), the effects of omitted variables and the usefulness of variables that resemble the outcome of a randomized experiment (Instrumental Variables), as well as extensions to high-dimensional big-data counterparts. Fundamental concepts in sampling theory, statistical inference (with small and large samples) and hypothesis testing will be studied and applied to real data using Stata, a general-purpose statistical software.*

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| 0101 | Erich Battistin | Seats (Total: 35) | |
| | TuTh 11:00am - 1:30pm<br>F 3:00pm - 5:00pm | SYM 0215<br>KEY 0102 | Discussion |

**AREC699** **Special Problems in Agricultural and Resource Economics**

(Perm req)

*Intensive study and analysis of specific problems in the field of agricultural and resource economics, providing in-depth information in areas of special interest to the student.*

**Contact department for information to register for this course.**

**AREC785** **Advanced Economics of Natural Resources**

*Prerequisite: Permission of AGNR-Agricultural & Resource Economics department; or (ECON603 and AREC623). Cross-listed with: ECON785. Credit only granted for: AREC785 or ECON785.*

*The use of exhaustible and renewable natural resources from normative and positive points of view. Analysis of dynamic resource problems emphasizing energy, mineral, groundwater, forestry, and fishery resources; optimal, equilibrium, and intergenerational models of resource allocation.*

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| 0101 | James Archsmith | Seats (Total: 15) |
| | TuTh 12:30pm - 1:45pm | LEF 1201 |

**AREC799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**AREC832** **Agricultural Policy Analysis**

*Credit only granted for: AREC632 or AREC832.*

*The economics of agricultural policies. The impact of agricultural policies on both historic and modern growth, including discussion of optimal farm and ownership structure. Contemporary policy issues in both developed and developing countries. Additional topics in trade, environment, and commodity markets.*

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| 0101 | Cory Smith | Seats (Total: 25) |
| | TuTh 3:30pm - 4:45pm | SYM 0209 |

**AREC891** **Introduction to Prospectus Development**

*Prerequisite: Completion of the first year of graduate study in AREC. Credit only granted for: AREC 869K or AREC 891. Formerly: AREC869K.*

*Critical evaluation of research, prospectus topic exploration including literature review, data identification, model development, and related presentations. Required of all second-year Ph.D. students.*

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| 0101 | Erik Lichtenberg<br>TuTh 9:30am - 10:45am | Seats (Total: 10)<br>SYM 2200B |

**AREC892** **Dissertation Prospectus Development**

(Perm req)

*Prerequisite: Completion of two years of the AREC Ph.D. program. Credit only granted for: AREC 869P or AREC 892. Formerly: AREC869P.*

*Presentations of proposed dissertation research including literature review, model development, data identification, and written prospectus development. Required of all third-year Ph.D. students.*

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| 0101 | Erik Lichtenberg<br>TuTh 9:30am - 10:45am | Seats (Total: 35)<br>SYM 2200B |

**AREC898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**AREC899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# ARHU Arts and Humanities Fall 2024

**ARHU158D** **Explorations in Arts and Humanities; Mapping Biographies of the Enslaved in America**

*A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.*

Restricted to first semester first year students in the College of Arts and Humanities. This course engages students in first-hand archival, historical, and digital work on the history of enslavement in America so that we might better understand its long-reaching effects. Students will work with public databases and biographical materials in an effort to recover what we can of the histories of the enslaved and the industries of enslavement. Though this course takes a broad approach to American slavery, we will also pay special attention to the history of slavery in Maryland.

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| 0101 | Robert Lucci<br>TuTh 3:30pm - 4:45pm | Seats (Total: 15)<br>TLF 0103 |

**ARHU158K** **Explorations in Arts and Humanities; From Parasite to Mutualist: Redesigning Human Relations with Earth**

*A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.*

Restricted to first semester first year students in the College of Arts and Humanities. How can human societies shift from parasitic to mutualistic environmental behaviors? This interdisciplinary course examines paths to solve our great challenges: climate change and habitat degradation caused by fossil fuels and rampant consumer culture. Themes include evolutionary mutualism, group selection, permaculture, Indigenous knowledge, post-petroculture, closed loops, and zero waste. These mutualisms reveal how humanist subjects like identity, culture, narrative, and environmental injustice affect our relationship with Earth. Creative assignments and guest speakers will inform in-depth projects that redesign parasitisms to be mutualisms in green infrastructure, sustainable agriculture, greenwashing, environmental psychology and sociology, and creative "righting."

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| 0101 | Heidi Scott | Seats (Total: 15) |
| | TuTh 9:30am - 10:45am | TLF 0103 |

**ARHU158M** **Explorations in Arts and Humanities; Theatre as a Tool for Societal Transformation**

*A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.*

Restricted to first semester first year students in the College of Arts and Humanities. Because theatre is a live, character-driven art form, it is uniquely situated to encourage audience members and collaborators to put themselves in someone else's shoes and empathetically engage with different backgrounds and perspectives. Theatre can be a powerful tool to wrestle with the great societal and political challenges of our times, and pave the way for societal transformation. Through field trips to see productions at DC-area professional theatres, guest artist visits, play analysis and creative projects, students will gain firsthand knowledge of the creative roles in theatre, including the contributions and processes of a director, designer, actor, and playwright.

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| 0101 | Jennifer Newsham | Seats (Total: 15) |
| | TuTh 1:30pm - 2:45pm | PAC 1809 |

**ARHU158N** **Explorations in Arts and Humanities; The Art of Public Health**

*A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.*

Restricted to first semester first year students in the College of Arts and Humanities. Artists explore and document public health disparities by collectively creating a multiverse of expression. Public health offers a technical framework to address the challenges faced in the United States and beyond. Artists, over the ages, have expanded our understanding of health inequities through advocacy and giving voice to the experiences of marginalized communities. Through literature, film, music and visual art, students will explore the power and essentiality of the humanities in public health.

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| 0101 | Michelle Moncrieffe | Seats (Total: 15) |
| | TuTh 2:00pm - 3:15pm | TLF 0103 |

**ARHU158Q** **Explorations in Arts and Humanities; The Power of Youth**

*A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.*

Restricted to first semester first year students in the College of Arts and Humanities. 20-something influencers such as Kylie Jenner and Shawn Mendes use social media to reach their millions of followers and to help shape what they think about, talk about, and purchase. Former Parkland, Florida student David Hogg shows how young people can affect social change by advocating for stricter gun control laws on national media outlets. Starting with these examples and drawing from literature, politics, and gender and sexuality studies, we will analyze youth and its power in our culture.

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| 0101 | Robert Crane | Seats (Total: 15) |
| | MW 11:00am - 12:15pm | SYM 0209 |

**ARHU158W** **Explorations in Arts and Humanities; Language and Antiracism**

*A first-year innovation and research experience. It introduces multiple disciplinary perspectives within a given theme to understand human beings, cultures and societies. Students will learn about key questions, concepts, methods, and practices within ARHU and will engage in original humanistic research while working with campus and college tools and resources.*

Restricted to first semester first year students in the College of Arts and Humanities. This sociolinguistics seminar is addressed to incoming ARHU majors, particularly those seeking a degree that will allow them to teach any language (including both L1 and L2) at any educational level. It is anchored in a critical interdisciplinary approach -- sociolinguistics, applied linguistics, Hispanic applied linguistics, linguistic anthropology, sociology, social psychology, race studies, Latinx studies, language acquisition, education, Hip-Hop studies -- that emphasizes the social, political and ideological dimensions of language. Its objective is to raise linguistic awareness through the implementation of antiracist language teaching methods in the language classroom.

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| 0101 | Jose Magro | Seats (Total: 15) |
| | MW 2:00pm - 3:15pm | TLF 0103 |

**ARHU230** **Introduction to Humanities, Health, and Medicine**

(Perm req)

*Restriction: Permission of ARHU-English Department. Cross-listed with: ENGL254, HIST219N, WGSS230. Credit only granted for: ARHU230 , ENGL289C, ENGL254, ARHU298A, HIST219N, or WGSS230.*

*An overview of the historical, cultural, ethical, and spiritual dimensions of medicine, human health, disease, and death from the points of view of various humanistic disciplines.*

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| 0101 | Michelle Moncrieffe | Seats (Total: 20) |
| | TuTh 11:00am - 12:15pm | JMZ 2123 |

**ARHU240** **Cultural Institutions of the United States**

*An introduction to cultural institutions in the United States, while providing student exposure to the professional environment artist find themselves in. In order for artist and arts administrators to succeed after their educational experience it is critical to understand the history of their respective field, and which events and questions have shaped, and are shaping, their industry. This course is very much an interdisciplinary initiative. Over the past century the arts have become ever-more integrated with one another resulting in a requirement of not only understanding one discipline, but how other disciplines affect a particular practice.*

Cross-listed with TDPS258C. Credit granted for ARHU240 or TDPS258C.

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| 0101 | Maura Keefe | Seats (Total: 20) |
| | TuTh 9:30am - 10:45am | PAC 1809 |

**ARHU269M** **Special Topics in Study Abroad II; Sicily Against the Mafia**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ARHU269P** **Special Topics in Study Abroad II; Mystery Paintings**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ARHU269V** **Special Topics in Study Abroad II; Vienna and Budapest Field Study**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ARHU275** **Scriptwriting for Theater, Film, and Television**

*Cross-listed with: ENGL275. Credit only granted for: ENGL275 or ARHU275.*

*Introduction to the theory and practice of scriptwriting with an opportunity to read, view, evaluate, write, and revise texts meant to be performed. Students will practice writing for the stage, film, and television and also examine selected scripts, performances, and film and television clips as models for their own creative work. Students will complete frequent writing exercises, participate in workshops, and learn to apply scholarship to the analysis and critique of scripts.*

| | | |
|---|---|---|
| 0101 | Jay Wilcox<br>MWF 9:00am - 9:50am | Seats (Total: 15)<br>KEY 0123 |
| 0102 | Jay Wilcox<br>MWF 9:00am - 9:50am<br>*This section is restricted to students in the Jimenez-Porter Writers' House.* | Seats (Total: 5)<br>KEY 0123 |
| 0201 | Liam Daley<br>MWF 10:00am - 10:50am | Seats (Total: 20)<br>KEY 0123 |

**ARHU277** **Careers in the Toy Industry: Gender, Trends, and Social Impact**

*Cross-listed with: WGSS277. Credit only granted for: WGSS277 or ARHU277.*

*Exposes students to diverse career options within the $114 billion global toy industry, and will explore the toy industry's relationships to gender and other areas of social impact. Students will learn how careers in play shape our society and about the countless careers in this fun, dynamic field for individuals with diverse, transferable skills. This class will share how emerging trends in content, technology, and approaches to identity and stereotypes shape the industry, its workforce, and its social impact. From Marketing, Accounting, Advocacy and Communications, to Design, Engineering, Law, Supply Chain and Entrepreneurship this is a constantly evolving industry that has the power to shape minds and our world through the power of play.*

| | | |
|---|---|---|
| 0101 | Genna Rosenberg<br>W 5:00pm - 5:50pm | Seats (Total: 40)<br>ONLINE |

**ARHU286** **Experiential Learning**

(Perm req)

*Prerequisite: Permission of ARHU-College of Arts & Humanities. Restriction: Minimum cumulative GPA of 2.5; and must be in a major or minor in ARHU - College of Arts and Humanities.*

*Designed for students who are in their first semester at the University of Maryland and/or students who wish to complete legislative internships, some start-up internships and some remote internships. All students must be enrolled in an ARHU major or minor and the internship must be in one of the academic fields covered within the College of Arts and Humanities. In addition to completing their required hours on site, students will be required to attend three bi-weekly seminars at the beginning of the semester to help develop their para-professional goals and understandings.*

| | | |
|---|---|---|
| 0101 | Jeffrey Kodis, Paula Nadler<br>Contact instructor or department for details. | Seats (Total: 5) |

**ARHU299M** **Studies in Humanities Technology; Machine Learning in Language and Art**

*Selected topics in the use of Information Technology in the Humanities.*

Cross-listed with COMM298M and ENGL289G. Credit only granted for ARHU299M, COMM298M, or ENGL289G How do language models like ChatGPT generate essays, poems, and stories?How do machine learning models learn to determine the author of a text, or identify the artist behind a painting? What makes language models like ChatGPT different from image generators like Stable Diffusion? And can language models be used to make music? We will teach you how to build models that read and write in natural languages, what makes those models different from applications of machine learning to visual art and music ,how to use Python for data analysis and statistics, how to visualize data, and how to apply mathematical and statistical knowledge to practical problems in the digital humanities. No background in coding or statistics is required, but students with some programming or statistics experience are also very welcome in the course.

| | | |
|---|---|---|
| 0101 | Sathvik Nair, Omar Agha | Seats (Total: 20) |
| | TuTh 9:30am - 10:45am | JMZ 1224 |

**ARHU300** **Writers' House Colloquium: Welcome to Writers' House; Writing Your Manifesto**

(Perm req)

*Restriction: Must be in the Jimenez-Porter Writers' House Living-Learning Program.*

*Welcomes new students into Jimenez-Porter Writers' House, a literary center for the study of creative writing across cultures and languages, and helps them to understand, develop and write their own artist statement (aka Artist Manifesto). Students will explore the creative and intellectual traditions of our community, their craft and future careers, understand what these traditions are, how they have evolved over time and place, and why they matter. Emphasis will be placed on community building, engagement and participation, with presentations from the editorial staff of Stylus, executive board of Terpoets, Novelist Support Group as well as other professional development opportunities.*

| | | |
|---|---|---|
| 0101 | Ross Angelella | Seats (Total: 25) |
| | Th 4:00pm - 5:15pm | ASY 3221 |

**ARHU309** **Writers' House Colloquium: Creative Writing in Community**

(Perm req)

*Colloquium designed to improve students' skills in literary and communication arts through lectures, workshop and discussions on the history and craft of writing across cultures. Topics include poetry and fiction in translation, and exploration of modes of critique, elements of craft of fiction and poetry, writing for different media, genre writing, writing for performance, screen or scriptwriting and creative non-fiction.*

For Writers House students only.

| | | |
|---|---|---|
| 0101 | Ross Angelella | Seats (Total: 15) |
| | W 3:30pm - 4:45pm | QAN 1132 |
| | *First-year screenwriting workshop.* | |

| | | |
|---|---|---|
| 0301 | Oludolapo Demuren<br>W 5:00pm - 6:15pm<br>*First-year prose and fiction workshop* | Seats (Total: 15)<br>QAN 1132 |

**ARHU319A** **Writers' House Second Year Colloquium: Form and Theory of Creative Writing; Prose**

(Perm req)

*Required course for Writers' House students pursuing the notation program. Offered in either poetry or imaginative prose writing. Students work at the intermediate level, refining creative writing skills through cross-cultural reading and writing exercises. As part of the course, students attend a series of lectures and readings given by professional writers.*

For Writers' House students only. For further details please contact jrangel@umd.edu

| | | |
|---|---|---|
| 0101 | Oludolapo Demuren<br>MW 3:30pm - 4:45pm<br>Contact instructor or department for details. | Seats (Total: 15)<br>JMZ 1226 |

**ARHU319D** **Writers' House Second Year Colloquium: Form and Theory of Creative Writing; Exploring the Contemporary Revolution in Poetic Practice**

(Perm req)

*Required course for Writers' House students pursuing the notation program. Offered in either poetry or imaginative prose writing. Students work at the intermediate level, refining creative writing skills through cross-cultural reading and writing exercises. As part of the course, students attend a series of lectures and readings given by professional writers.*

| | | |
|---|---|---|
| 0101 | Laura Lauth<br>Th 5:30pm - 8:00pm | Seats (Total: 15)<br>QAN 1132 |

**ARHU338** **Undergraduate Teaching Assistantship in a Living Learning Program**

(Perm req)

*Offers exceptional students the opportunity to work closely with a faculty member and gain valuable experience. ARHU Living learning program UTAs also serve as peer mentors and program leaders. They assist with course planning, research, and student advising (as appropriate). We are also allowing for variable credit (1-3 cr hrs).*

| | | |
|---|---|---|
| 0101 | Ross Angelella<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0102 | Damien Pfister<br>Contact instructor or department for details. | Seats (Total: 4) |

**ARHU340** **Financial Entrepreneurship for Arts Leaders**

*Cross-listed with: MUSC448E. Credit only granted for: ARHU340 or MUSC448E.*

*An introduction to financial entrepreneurship for the arts leader in order to prepare students for diverse and ever-changing careers in the arts and creative fields. Topics explored will include Professional Paperwork (resumes, cover letters, biographies, job searches), Financial Literacy (taxes, budgets, boards, tickets sales, musicians unions), Marketing (website development, social media, press packets, record labels vs. online distribution, headshots, audience development, community engagement, branded content), Communication (public speaking, writing), and Technology (online tools, computer software, peripherals, recording, photography/videography, on campus resources).*

| | | |
|---|---|---|
| 0101 | Elizabeth Schurgin<br>TuTh 9:30am - 10:45am<br>*Reserved for Arts Leadership Minors; please contact ARHU-School of Theatre, Dance, and Performance Studies for permission to register.* | Seats (Total: 14)<br>PAC 2200 |
| 0102 | Elizabeth Schurgin<br>TuTh 9:30am - 10:45am | Seats (Total: 14)<br>PAC 1815 |

**ARHU358** **Becoming Worldwise and Worldready: Finding Success in College and Life**

*Designed to help students navigate the various resources that exist at a large, Research 1 university like the University of Maryland. The course focus is helping them better understand the groundwork needed to transition successfully from underclassman to upperclassman, from an outside major into ARHU or from an external school to UMD, and ultimately from college into life post-graduation.*

Restriction: Must be enrolled in a major in the College of Arts and Humanities. Repeatable to 3 credits if content differs. Designed to help students navigate the various resources that exist at a large, Research 1 university like the University of Maryland. The course focus is helping them better understand the groundwork needed to transition successfully from underclassman to upperclassman, from an outside major into ARHU or from an external school to UMD, and ultimately from college into life post-graduation.

| | | |
|---|---|---|
| 0101 | Tiara Lowe, Kate Juhl, Jeffrey Kodis, Paula Nadler<br>**Meets August 26, 2024 - October 18, 2024**<br>Class time/details on ELMs<br>*This section will be online and asynchronous, with one online, synchronous session.* | Seats (Total: 20)<br><br>ONLINE |

**ARHU375** **The TV Writers Room Screenwriting for Television and Video**

(Perm req)

*Prerequisite: ARHU275, ARHU318, or FILM370; and permission of instructor. Additional information: Priority in enrollment will be given to students participating in the Jimenez-Porter Writers' House and FILM studies programs.*

*Students engage with the theory and practice of screenwriting for television and video. Students read and watch teleplays designed to teach advantages of the television format. Students apply what they learn to prepare frequent writing exercises, share and provide feedback for peers scripts in a workshop format, and work together as a Writers Room to prepare an original pilot episode.*

| | | |
|---|---|---|
| 0101 | Ross Angelella<br>M 6:00pm - 8:30pm | Seats (Total: 15)<br>ASY 3215 |

**ARHU386** **Experiential Learning**

(Perm req)

*Prerequisite: Permission of ARHU-College of Arts & Humanities. Restriction: Junior standing or higher.*

| | | |
|---|---|---|
| 0101 | Paula Nadler, Jeffrey Kodis<br>Contact instructor or department for details. | Seats (Total: 30) |
| 0201 | Jeffrey Kodis, Paula Nadler<br>Contact instructor or department for details.<br>*This section is intended for students engaging in research-based internships.* | Seats (Total: 5) |
| 0301 | Susan Miller<br>Contact instructor or department for details.<br>*This section is restricted to students enrolled in the Arts Leadership Minor.* | Seats (Total: 3) |

**ARHU458** **Graduate School Preparation**

*Designed for Juniors and Seniors who are interested in applying to graduate school. Topics include skills needed for the graduate school search and application process, evaluation and reflection of application materials, preparation for GRE exam, and exploration into career options after graduate school. Focus on the Humanities fields.*

Restriction: Must have earned a minimum of 60 credits. Repeatable to 3 credits if content differs. Designed for Juniors and Seniors who are interested in applying to graduate school. Topics include skills needed for the graduate school search and application process, evaluation and reflection of application materials, preparation for GRE exam, and exploration into career options after graduate school. Focus on the Humanities fields.

| | | |
|---|---|---|
| 0101 | Paula Nadler<br>Class time/details on ELMs | Seats (Total: 25)<br>ONLINE |

**ARHU468A** **Peer Mentoring Program; Arts and Humanities' Ambassador Program**

(Perm req)

*A workshop for sophomore, junior or senior students who wish to serve as peer mentors helping first-year students to cope with the numerous issues which often arise in the transition to the university.*

Restricted to current ARHU students who will serve as ambassadors for the College of Arts and Humanities.

| | | |
|---|---|---|
| 0101 | Jessica Krenek<br>M 4:00pm - 5:30pm | Seats (Total: 20)<br>SKN 1115 |
| 0102 | Jessica Krenek<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE |

**ARHU486** **Internship Practicum in Arts and Humanities**

(Perm req)

*Prerequisite: Have completed previous internship at U of MD. Restriction: Must be in a major in ARHU-College of Arts & Humanities; and permission of ARHU-College of Arts & Humanities; and minimum cumulative GPA of 2.5; and must have earned a minimum of 60 credits; and completed 12 credits at U of MD.*

*An internship intended for students who have already completed an internship for credit. ARHU486 must be a different experience from the internship students have already taken for credit. Generally students intern with a different company, but they may continue working for the same company if the job is significantly different. See ARHU internship coordinator for details.*

| | | |
|---|---|---|
| 0101 | Jeffrey Kodis, Paula Nadler<br>Contact instructor or department for details. | Seats (Total: 25) |

**ARHU489** **Advanced Internship Practicum in ARHU**

(Perm req)

*Designed for students who have already completed at least 2 upper level internship courses for academic credit. It is an advanced practicum to assist students in continuing to develop and hone their professional writing, presentation and analytical skills.*

Prerequisite: Permission of the College of Arts and Humanities.

| | | |
|---|---|---|
| 0101 | Paula Nadler<br>Contact instructor or department for details. | Seats (Total: 2) |

# ARMY Army Fall 2024

**ARMY106** **Basic Military Science I**

*Restriction: Students must meet Officer candidate criteria to participate in field training.*

*Introduction to the personal challenges and competencies that are critical for effective leadership and communication. Develops knowledge and competency in physical fitness through rigorous training and experiential leadership education through leadership laboratories.*

| | | |
|---|---|---|
| 0101 | Adriana Tarrago, Daniel Fass<br>TuTh 11:00am - 12:15pm | Seats (Total: 31)<br>ATL 2428 |
| 0102 | Adriana Tarrago, Daniel Fass<br>MWF 9:00am - 9:50am | Seats (Total: 40)<br>HJP 2242 |
| FC01 | Adriana Tarrago, Daniel Fass<br>TuTh 11:00am - 12:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 15)<br>ATL 2428 |
| FC02 | Adriana Tarrago, Daniel Fass<br>MWF 9:00am - 9:50am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 9)<br>HJP 2242 |

**ARMY110** **Intro to Army Military History**

(Perm req)

*Restriction: Must be in the Army ROTC program.*

*This course is composed of 46 modules, including 43 lessons and 3 exams, covering military history from early colonial warfare in the eighteenth century to the global war on terrorism in the twenty-first century. The course begins with a pretest, which provides the learner with insight into what will be covered in the course and an opportunity to gauge their knowledge coming into the course. Each lesson will include readings and an Interactive Multimedia Instruction (IMI) piece. Discussion activities, writing assignments, and midterm and final exams will allow students to synthesize what they have learned.*

| | | |
|---|---|---|
| 0101 | Donald Casey, Adriana Tarrago, Andrew Bischoff<br>TuTh 12:30pm - 1:45pm | Seats (Total: 15)<br>ARM 0108 |

**ARMY201** **Army Leadership Development**

*Restriction: Sophomore standing or higher.*

*This course is an intensive examination of the Army Leadership Model in practice. The model is compared to leadership styles and techniques from government and industry and the comparative effectiveness of each. Students form their own personal leadership styles.*

| | | |
|---|---|---|
| 0102 | Donald Casey, Sarah Hill, Andrew Bischoff<br>TuTh 12:30pm - 1:45pm | Seats (Total: 35)<br>SKN 1115 |

**ARMY301** **Advanced Military Leadership I**

*Reinforces understanding and application of Army leadership strategies, critical decision making methodologies, physical and mental fitness excellence. Includes a laboratory period in applied leadership, common military tasks and physical fitness.*

| | | | |
|---|---|---|---|
| 0101 | Sarah Hill, Andrew Bischoff | Seats (Total: 40) | |
| | TuTh 11:00am - 12:15pm | PLS 1119 | |
| | Th 4:00pm - 6:00pm | ARM 0131 | Lab |
| | MWF 6:30am - 7:30am | ARM 0126 | Lab |

**ARMY401** **Advanced Military Leadership III**

*Introduces contracted students to the study of Army structure, practices and processes exercised by Army Commanders and Staff in completing personnel, logistics, training and combat operations. Includes a laboratory in applied leadership skills and two field exercises.*

| | | | |
|---|---|---|---|
| 0101 | Andrew Bischoff | Seats (Total: 30) | |
| | TuTh 2:00pm - 3:15pm | ESJ 1309 | |
| | Th 4:00pm - 6:00pm | ARM 0126 | Lab |
| | MWF 6:30am - 7:30am | ARM 0135 | Lab |

# ARSC Air Science Fall 2024

**ARSC059** **Air Force Officer Lab**

*Offers Air Force ROTC cadet officer's practical experience in military leadership, management, organization, and customs. May include visits to military installations, weekend laboratories, and flight orientation.*

Class will have online meetings with an option to meet face-to-face. See instructor for details. Restriction: Must be an AFROTC cadet. Repeatable to 10 credits if content differs. Formerly: ARSC159. Additional information: This course does not carry any credit toward any degree at the University.

| | | | |
|---|---|---|---|
| 0101 | Desirae Martins | Seats (Total: 220) | |
| | Th 7:00am - 8:50am | ARM 0126 | Lab |
| FC01 | Desirae Martins | Seats (Total: 10) | |
| | Th 7:00am - 8:50am | ARM 0126 | Lab |
| | *Restricted to students in Freshmen Connection.* | | |

**ARSC100** **Heritage and Values I**

*Corequisite: AFROTC cadets must also register for ARSC059.*

*Freshman course for AFROTC cadets. Introduces students to the United States Air Force and encourages participation in Air Force Reserve Officer Training Corps. Featured topics include: overview of ROTC, special programs offered through ROTC, mission and organization of the Air Force, brief history of the Air Force, introduction to leadership and leadership related issues, Air Force Core Values, Air Force officer opportunities, and an introduction to communication studies. Leadership laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.*

An elective but required for freshmen desiring the four-year AFROTC program.

| | | |
|---|---|---|
| 0101 | Nathan Rabe, Joseph Herwatic<br>Tu 9:00am - 9:50am | Seats (Total: 50)<br>ARM 0135 |
| 0102 | Nathan Rabe, Joseph Herwatic<br>Th 9:00am - 9:50am | Seats (Total: 75)<br>ARM 0135 |
| 0103 | Joseph Herwatic, Nathan Rabe<br>Th 1:00pm - 1:50pm | Seats (Total: 48)<br>TYD 1118 |
| FC01 | Joseph Herwatic, Nathan Rabe<br>Th 1:00pm - 1:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 10)<br>Location: TBA |
| FC02 | Joseph Herwatic, Nathan Rabe<br>Th 9:00am - 9:50am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 10)<br>ARM 0135 |

**ARSC200** **Team and Leadership Fundamentals I**

*Corequisite: AFROTC cadets must also register for ARSC059.*

*Sophomore course for AFROTC cadets. Study of factors contributing to the development of air power from its earliest beginnings through two world wars; the evolution of air power concepts and doctrine; introductory leadership; and assessment of communicative skills.*

| | | |
|---|---|---|
| 0101 | Kathryn Love<br>Th 10:00am - 10:50am | Seats (Total: 50)<br>ARM 0135 |
| 0102 | Kathryn Love<br>Th 2:00pm - 2:50pm | Seats (Total: 35)<br>ASY 3211 |
| 0103 | Kathryn Love<br>Tu 10:00am - 10:50am | Seats (Total: 40)<br>ARM 0135 |

**ARSC300** **Leading People and Effective Communication I**

(Perm req)

*Corequisite: AFROTC cadets must also register for ARSC059; or permission of UGST-AFROTC-Air Science. Restriction: Junior standing or higher.*

*The study of leadership and management fundamentals, professional knowledge, Air Force doctrine, and written and oral communication skills. Case studies are used to examine leadership and management situations. This course will satisfy credit toward a minor in military studies.*

| | | |
|---|---|---|
| 0101 | Desirae Martins<br>Th 9:00am - 11:50am | Seats (Total: 40)<br>TYD 0111 |
| 0102 | Desirae Martins<br>TuTh 12:30pm - 1:45pm | Seats (Total: 20)<br>WDS 1131 |

**ARSC400** **National Security and Preparation for Active Duty I**

(Perm req)

*Prerequisite: Permission of UGST-AFROTC-Air Science; or (ARSC300 or ARSC301). Corequisite: ARSC059; or permission of UGST-AFROTC-Air Science. Restriction: Senior standing.*

*Study of American national security policy and processes to include information and implementation, impact of major national and international actors, and development of major policy issues. This course will satisfy credit towards a minor in military studies.*

| | | |
|---|---|---|
| 0101 | Joseph Herwatic<br>Th 9:00am - 11:50am | Seats (Total: 30)<br>JMZ 0103 |
| 0102 | Joseph Herwatic<br>TuTh 2:00pm - 3:30pm | Seats (Total: 20)<br>TLF 0110 |

# ARTH Art History & Archaeology Fall 2024

**ARTH169A** **Special Topics in Study Abroad I; Roman Archaeology On-Site**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ARTH169B** **Special Topics in Study Abroad I; Arts of Modernity**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ARTH169I** **Special Topics in Study Abroad I; Art of Rome**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ARTH200** **Art and Society in Ancient and Medieval Europe and the Mediterranean**

*Examines the material culture and visual expressions of Mediterranean and European societies from early times until ca. 1300 CE, emphasizing the political, social, and religious context of the works studied, the relationships of the works to the societies that created them, and the interrelationship of these societies.*

| | | | |
|---|---|---|---|
| 0101 | Maryl Gensheimer<br>TuTh 12:30pm - 1:20pm<br>F 11:00am - 11:50am | Seats (Total: 25)<br>ASY 2203<br>ASY 3211 | Discussion |
| 0102 | Maryl Gensheimer<br>TuTh 12:30pm - 1:20pm<br>F 12:00pm - 12:50pm | Seats (Total: 25)<br>ASY 2203<br>ASY 3211 | Discussion |
| 0103 | Maryl Gensheimer<br>TuTh 12:30pm - 1:20pm<br>F 12:00pm - 12:50pm | Seats (Total: 25)<br>ASY 2203<br>ASY 3215 | Discussion |
| 0104 | Maryl Gensheimer<br>TuTh 12:30pm - 1:20pm<br>F 1:00pm - 1:50pm | Seats (Total: 25)<br>ASY 2203<br>ASY 3215 | Discussion |
| 0105 | Maryl Gensheimer<br>TuTh 12:30pm - 1:20pm<br>F 10:00am - 10:50am | Seats (Total: 25)<br>ASY 2203<br>ASY 3215 | Discussion |
| 0106 | Maryl Gensheimer<br>TuTh 12:30pm - 1:20pm<br>F 11:00am - 11:50am | Seats (Total: 25)<br>ASY 2203<br>ASY 3215 | Discussion |
| 0107 | Maryl Gensheimer<br>TuTh 12:30pm - 1:20pm<br>F 1:00pm - 1:50pm | Seats (Total: 25)<br>ASY 2203<br>ASY 3211 | Discussion |
| 0108 | Maryl Gensheimer<br>TuTh 12:30pm - 1:20pm<br>F 2:00pm - 2:50pm | Seats (Total: 25)<br>ASY 2203<br>ASY 3211 | Discussion |

**ARTH201** **Art and Society in the West from the Renaissance to the Present**

*Examines representative European and American works of art from the later Middle Ages to the present, highlighting the dynamic exchange between artistic and cultural traditions both within periods and across time.*

| | | | |
|---|---|---|---|
| 0101 | Joshua Shannon<br>TuTh 11:00am - 11:50am<br>Th 3:30pm - 4:20pm | Seats (Total: 25)<br>ASY 2203<br>ASY 3211 | Discussion |
| 0102 | Joshua Shannon<br>TuTh 11:00am - 11:50am<br>Th 4:30pm - 5:20pm | Seats (Total: 25)<br>ASY 2203<br>ASY 3211 | Discussion |
| 0103 | Joshua Shannon<br>TuTh 11:00am - 11:50am<br>F 9:00am - 9:50am | Seats (Total: 25)<br>ASY 2203<br>ASY 3215 | Discussion |
| 0104 | Joshua Shannon<br>TuTh 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 25)<br>ASY 2203<br>ASY 3211 | Discussion |
| 0105 | Joshua Shannon<br>TuTh 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 25)<br>ASY 2203<br>TWS 0223 | Discussion |
| 0106 | Joshua Shannon<br>TuTh 11:00am - 11:50am<br>F 12:00pm - 12:50pm | Seats (Total: 25)<br>ASY 2203<br>TWS 0223 | Discussion |
| FC01 | Tony Cui<br>MW 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>ASY 3211 | |

**ARTH230** **Symbolic Images: The Theory and Practice of Iconography in European Art, 1400-1850**

*Iconographic interpretation of visual narratives, signs and symbols has long been a topic of art-historical inquiry. In early modern European art, images were often conceived with the deliberate intent of posing a 'puzzle' or 'problem' for the beholder to solve; yet in most cases we have little or no evidence of how contemporary beholders solved such enigmas. Provides students with the opportunity to take command of these research methods and source materials, addressing a genuine iconographic problem, researching the relevant literature, identifying the essential primary source evidence, making contextually appropriate assumptions, and producing a valid result.*

| | | | |
|---|---|---|---|
| 0101 | Anthony Colantuono<br>MW 9:00am - 10:15am | Seats (Total: 25)<br>ASY 3215 | |

**ARTH255** **Art and Society in the Modern American World**

*Explores the origins and evolution of art in the modern American world, from the late colonial era to the present, comparing major artistic movements and their historical contexts. Considers the diversity of art across Latin America and the United States, and the ways in which artworks mediate social, ethnic, political, and national identities.*

| | | | |
|---|---|---|---|
| 0101 | Alison Singer<br>MW 1:00pm - 2:15pm | Seats (Total: 25)<br>ASY 3215 | |

**ARTH260C** **Art and Activism**

*Can art effect social change? How may we use the history of radical and avant-garde art to inform present-day movements and models of artistic and creative activism? This course explores the modern and contemporary history of political art and arts activism on local, national, and global scales.*

Restricted to students in Carillon Communities.

| | | | |
|---|---|---|---|
| 0101 | Abigail McEwen<br>TuTh 9:30am - 10:45am | Seats (Total: 30)<br>ASY 1213 | |
| | *Restricted to students in Carillon Communities. Once registered, students need an electronic stamp from an advisor to drop the course.* | | |

**ARTH261** **Monuments, Monumentality, and the Art of Memorial**

*Why do societies create monuments? And why do they preserve and destroy, change and remove them? How do monuments embody cultural values, shape historical narratives, and become sites of mourning and memory? This course investigates the political and cultural work of monuments across time and space, from the ancient world to European empires to the contemporary United States. The issues we consider include intercultural exchange and religious contexts, race and representation, and appropriation and iconoclasm.*

| | | | |
|---|---|---|---|
| 0101 | Tess Korobkin<br>MW 11:00am - 11:50am<br>F 8:00am - 8:50am | Seats (Total: 25)<br>TWS 0310<br>ASY 3211 | Discussion |
| 0102 | Tess Korobkin<br>MW 11:00am - 11:50am<br>W 12:00pm - 12:50pm | Seats (Total: 25)<br>TWS 0310<br>ASY 3211 | Discussion |
| 0103 | Tess Korobkin<br>MW 11:00am - 11:50am<br>W 1:00pm - 1:50pm | Seats (Total: 25)<br>TWS 0310<br>ASY 3211 | Discussion |
| 0104 | Tess Korobkin<br>MW 11:00am - 11:50am<br>F 9:00am - 9:50am | Seats (Total: 25)<br>TWS 0310<br>ASY 3211 | Discussion |

**ARTH262** **Public Art**

*How does public art function on a university campus, in major cities, and across the United States? This course invites students to empirically study the modern history and civic values of public art spanning sculpture, painting, mixed-media, and installation. We consider the nature of public space, the politics of representation and community, and the civic and memorial functions of art. The course is built around a semester-long project in which students will commission a work of public art for our College Park campus.*

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|---|---|---|
| 0101 | Abigail McEwen | Seats (Total: 24) |
| | Tu 2:00pm - 4:30pm | EAF 1113 |

**ARTH269P** **Special Topics in Study Abroad II; From Medieval to Contemporary: Exploring the Great Art and Architecture of Prague**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ARTH269R** **Special Topics in Study Abroad II; Art of Renaissance**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ARTH301** **Aegean Art and Archaeology**

*Sites and monuments of painting, sculpture, architecture, and the minor arts of Crete, the Cycladic islands, and the Greek mainland from the earliest times to the downfall of the Mycenaean empire.*

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|---|---|---|
| 0101 | Emily Egan | Seats (Total: 25) |
| | TuTh 9:30am - 10:45am | ASY 3215 |

**ARTH303** **Roman Art and Archaeology**

*Sites and monuments of painting, sculpture, architecture, and the minor arts from the earliest times through the third century A.D. with emphasis on the Italian peninsula from the Etruscan period through that of Imperial Rome.*

**Contact department for information to register for this course.**

**ARTH305** **Archaeological Methods and Practice**

*Prerequisite: ANTH240, ARTH200, CLAS180, or CLAS190. Cross-listed with: ANTH305, CLAS305, JWST319Y. Credit only granted for: ANTH305, ARTH305, CLAS305, or JWST319Y.*

*A team-taught, interdisciplinary course discussing theories, methods, and ethical issues in the practice of archaeology.*

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|---|---|---|
| 0101 | Christian Cloke | Seats (Total: 35) |
| | TuTh 2:00pm - 3:15pm | SQH 1121 |

**ARTH324** **Leonardo's World: Art and Experience in Renaissance Italy**

*Painting, sculpture, architecture, and the decorative arts of the sixteenth century in Italy.*

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|---|---|---|
| 0101 | Katherine Rabogliatti | Seats (Total: 25) |
| | Th 3:30pm - 6:00pm | ASY 3215 |

**ARTH330** **Seventeenth-Century European Art**

*Painting, sculpture and architecture concentrating on Italy, Spain, France, and England.*

**Contact department for information to register for this course.**

**ARTH335** **Seventeenth-Century Art in the Netherlands**

*Painting, sculpture and architecture in seventeenth-century Netherlands.*

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|---|---|---|
| 0101 | Aneta Georgievska-Shine | Seats (Total: 25) |
| | TuTh 11:00am - 12:15pm | ASY 3215 |

**ARTH351** **Picturing Contemporary Life: Art Since 1945**

*Visual art since 1945, with an emphasis on North America and Europe.*

**Contact department for information to register for this course.**

**ARTH359M** **Film as Art; The Western and the Vision of the West**

*The study of film as a visual art, from theoretical, cultural and aesthetic perspectives. Content varies by semester.*

This course is a consideration of the West in American Imagination. The primary documents and focus will be Western films. However the themes of the Western arise out of cultural and artistic traditions pre-existing film, and we will consider the shaping of the Myth of West in popular literature and social discourse as it, in turn, is manifested and reinforced in visual art, both elite and commercial. The Western will be considered in this tradition as an artistic creation shaping and mediating themes of American identity through the continuation and alteration of pre-film constructions of "The West" in visual art, literature and social discourse. The underlying intention behind this course is to explore the way that cultural narratives and ideologies shape and are shaped by artistic creations.

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| 0101 | Greg Metcalf | Seats (Total: 25) |
| | W 3:30pm - 7:00pm | ASY 4213A |

**ARTH362** **Presently Black: Contemporary African American Art**

*Looks critically at African-American and African diaspora art, focusing particularly on works made in the 20th and 21st centuries. Organized chronologically, this class will provide students with a more thorough understanding of this period of art, as well as the overall connection of visual material to the social, the political, and the aesthetic frames of its production. We will study the ways in which African-American visual production has been shaped by larger discourses about American art, but has also responded to the very real circumstances of racial exclusion in both the mainstream art world and larger society. Students will also have a chance to interact directly with the collection of the David C. Driskell Center throughout the semester.*

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| 0101 | Alison Singer | Seats (Total: 25) |
| | W 4:00pm - 6:30pm | TWS 1107 |

**ARTH369F** **Special Topics in Study Abroad III; Traffickers, Thieves and Forgers: Art Crime**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ARTH369G** **Special Topics in Study Abroad III; Art Gallery Management**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ARTH369P** **Special Topics in Study Abroad III; History and Workshop of Latin America Photography**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ARTH369Q** **Special Topics in Study Abroad III; Patrons and Artists in Baroque Italy**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ARTH383** **Art of Japan after 1500**

*Thematically-focused topics in the painting, sculpture, architecture, gardens and decorative arts of early modern, modern and contemporary Japan, from 1500 to present.*

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|---|---|---|
| 0101 | Alicia Volk | Seats (Total: 25) |
| | TuTh 2:00pm - 3:15pm | ASY 3215 |

**ARTH386** **Experiential Learning**

*Prerequisite: Permission of ARHU-Art History & Archaeology department. Restriction: Junior standing or higher.*

*Supervised internship experience in diverse areas of art historical, archaeological, and museological work.*

**Contact department for information to register for this course.**

**ARTH389I** **Special Topics in Art History and Archaeology; Social and Socialist Realisms: Art, Revolution, and Solidarity in the Global Cold War**

Although the history of modern art in the 20th century is often told in terms of tendencies towards abstraction, this course investigates the important role played by 'realisms' across much of the socialist and non-aligned world (including Eastern Europe, Latin America, Asia, and Africa), tracing an alternate history of how artists used art to convey the urgency of political change.

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| 0101 | Raino Isto | Seats (Total: 25) |
| | M 4:00pm - 6:30pm | ONLINE |

**ARTH389M** **Special Topics in Art History and Archaeology; Afrofuturism**

Examines Black creative works that express futuristic spaces of radical possibility and radical imagination, often loosely termed "Afrofuturism." Afrofuturism encompasses a network of Black artists who are geographically diverse and whose creative explorations are located at the intersection of art, technoculture, and Black identity. These visual artists, writers, musicians, and filmmakers engage different mediums and technologies to articulate new futures through a Black cultural lens, often with a space-age theme. Throughout this course, we will trace the Afrofuturist point of view in 20th and 21st century Black speculative fiction, film, music, and the visual arts. We will analyze fiction by authors like Octavia Butler and Samuel R. Delany, study artworks by Wangechi Mutu, Jean-Michel Basquiat, and Yinka Shonibare, explore the music and visual output by Sun Ra, Parliament Funkadelic, and Janelle Mon e and consider films such as "Black Panther."

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| 0101 | Alison Singer | Seats (Total: 25) |
| | Tu 4:00pm - 6:30pm | ASY 3215 |

**ARTH392** **Contemporary Chinese Art and Film**

*Cross-listed with: CINE337. Credit only granted for: ARTH392, FILM329L or CINE337. Formerly: FILM329L.*

*Contemporary Chinese art and film are arguably the most vibrant of all national arts at the turn of the millennium and have become the face - both figuratively and literally - of contemporary China, a complex society with historic overlays of Confucianism, Taoism, Buddhism, Communism, Post-socialism, and state capitalism. Students will consider a wide range of art forms (painting, photography, video, installation, web-based media, and film) in four broad themes (uses of the past; critiques of power; representations of race, gender, and sexuality; socially engaged art) and explore the complex intertwining of the political, historical, and aesthetic aspects in Chinese contemporary art and film, as well as the multiple contexts in which these artworks are created and circulated.*

Cross-listed with FiLM329L. Credit only granted for ARTH392 or FILM329L.

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| 0101 | Jason Kuo | Seats (Total: 25) |
| | M 1:00pm - 3:30pm | ASY 4213A |

**ARTH428F** **Selected Topics in Art History; Sources and Methods of Early Modern European and Euro-Colonial Iconography**

(Perm req)

*Advanced special topics in Art History.*

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|---|---|---|
| 0101 | Anthony Colantuono | Seats (Total: 2) |
| | M 12:00pm - 2:30pm | ASY 4304 |

**ARTH428G** **Selected Topics in Art History; Colonialism and the Art of South and Southeast Asia**

(Perm req)

*Advanced special topics in Art History.*

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|---|---|---|
| 0101 | Karin Zitzewitz | Seats (Total: 2) |
| | Tu 1:30pm - 4:00pm | ASY 4304 |

**ARTH488I** **Colloquium in Art History; Living in the shadow of Vesuvius**

*Colloquium to investigate a specific topic in depth.*

When Mt. Vesufius erupted in 79 CE, Roman cities along the Bay of Naples, such as Pompeii and Herculaneum, were completely buried by volcanic debris. Elite retreats for leisure, such as the villas at Oplontis and Stabiae, were also destroyed. This course will rediscover the lost cities and ancient monuments on the Bay of Naples the temples, theaters, baths , streets, and many houses to understand the infrastructure and daily life of these ancient cities and spaces. Surveys of area archaeological sites will help to contextualize these monuments within their regional and cultural landscape. Material and information will also be drawn from UMD's excavations at Stabiae.

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| 0101 | Maryl Gensheimer | Seats (Total: 14) |
| | Tu 2:00pm - 4:30pm | ASY 3211 |

**ARTH488J** **Colloquium in Art History; Japanese Art in the 20th Century: Empire,War & Occupation**

*Colloquium to investigate a specific topic in depth.*

Learn how art played a role in building the Japanese empire, supporting the war effort, and rebuilding the nation after defeat. Discover the relation between art, power and politics. See how contemporary Japanese artists incorporate modern history into their art. Handle archival materials and artworks with your own hands.

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|---|---|---|
| 0101 | Alicia Volk | Seats (Total: 14) |
| | TuTh 11:00am - 12:15pm | ASY 3211 |

**ARTH488Z** **Colloquium in Art History; Great Chinese Film Directors: Ang Lee to Zhang Yimou**

*Colloquium to investigate a specific topic in depth.*

Cross-listed with CINE459Y. Credit only granted for ARTH488Z or CINE459Y. Filmmaking is the most fascinating and fastest growing art form in China. Students will examine the films directed by some of the greatest Chinese directors such as Ang Lee, Hou Hsiao-hsien, Wong Kar-wai, and Zhang Yimou. The films will be studied in their artistic, historical, political, and social contexts.

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| 0101 | Jason Kuo | Seats (Total: 14) |
| | Th 2:00pm - 4:30pm | ASY 3217 |

**ARTH498** **Directed Studies in Art History I**

(Perm req)

**Contact department for information to register for this course.**

**ARTH499** **Honors Thesis**

(Perm req)

**Contact department for information to register for this course.**

**ARTH638A** **Studies in Seventeenth-Century Southern European Art; Sources and Methods of Early Modern European and Euro-Colonial Iconography**

Includes a review of the vast early modern literatures pertaining to the theory and practice of pictorial invention, including literatures in pictorial theory and symbolic theory. A series of readings in recent research will orient students to the current state of inquiry.

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| 0101 | Anthony Colantuono<br>M 12:00pm - 2:30pm | Seats (Total: 8)<br>ASY 4304 |

**ARTH692** **Methods of Art History**

(Perm req)

*Methods of research and criticism applied to typical art-historical problems; bibliography and other research tools.*

For all non-Art History and Archaeology majors, permission of the department is required.

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| 0101 | Elizabeth Honig<br>Th 1:30pm - 4:00pm | Seats (Total: 6)<br>ASY 4304 |

**ARTH698** **Teaching Art History**

*Allows students to explore pedagogical tools and methods in the history of art and archaeology, with a goal to becoming better instructors in the field. Starting with the basics of being a good TA (discussion of texts, teaching visual analysis, grading assignments), it moves on through questions of research and project-based teaching, lecturing, and the creation of an inclusive and equitable classroom. Students are asked to design a class they could teach, including a syllabus and assignment prompts. They will also learn how to deliver a lecture (in class, at a conference) and will explore the job market (academic and non-academic) for art historians and archaeologists. The class is recommended for students who have served once as a TA and taken the basic "TA Training" workshops.*

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| 0101 | Emily Egan, Elizabeth Honig, Karin Zitzewitz, Joshua Shannon, Maryl Gensheimer<br>W 3:00pm - 5:30pm | Seats (Total: 8)<br>ASY 4304 |

**ARTH788A** **Seminar in Indian and South Asian Art; Colonialism and the Art of South and Southeast Asia**

Examines the role of trade, policies of direct and indirect colonial rule, anti-colonial nationalism, and decolonization on the development of art in South and Southeast Asia from the 16th century to the present. Discussions will be broad, with the goals of surveying canonical and recent literature and contextualizing current debates on decolonial art history.

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| 0101 | Karin Zitzewitz<br>Tu 1:30pm - 4:00pm | Seats (Total: 8)<br>ASY 4304 |

**ARTH798** **Directed Graduate Studies in Art History**

(Perm req)

**Contact department for information to register for this course.**

**ARTH799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**ARTH898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**ARTH899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# ARTT Art Studio Fall 2024

**ARTT100** **Two-Dimensional Design Fundamentals**

*Principles and elements of two-dimensional design. Introduction to visual communication.*

Students must pay a $40.00 laboratory studio fee.

| | | | |
|---|---|---|---|
| 0101 | Danielle Leizman<br>TuTh 12:30pm - 3:00pm | Seats (Total: 18)<br>ASY 2318 | Lab |
| 0201 | Danielle Leizman<br>TuTh 12:30pm - 3:00pm | Seats (Total: 18)<br>ASY 2318 | Lab |
| 0501 | Wendy Jacobs<br>MW 12:30pm - 3:00pm | Seats (Total: 18)<br>ASY 2318 | Lab |
| 0601 | Wendy Jacobs<br>MW 12:30pm - 3:00pm | Seats (Total: 18)<br>ASY 2318 | Lab |
| 0701 | Wendy Jacobs<br>MW 3:30pm - 6:00pm | Seats (Total: 18)<br>ASY 2318 | Lab |
| 0801 | Wendy Jacobs<br>MW 3:30pm - 6:00pm | Seats (Total: 18)<br>ASY 2318 | Lab |

**ARTT110** **Elements of Drawing I**

*Fundamental concepts, media, and processes of drawing. Emphasis on observation and representation in combination with individual expression. Subject matter includes still life, human figure, nature, the built environment, and conceptual projects.*

Students must pay a $40.00 laboratory studio fee.

| | | | |
|---|---|---|---|
| 0101 | Matthew McLaughlin<br>MW 9:00am - 11:30am | Seats (Total: 18)<br>ASY 2317 | Lab |
| 0201 | Matthew McLaughlin<br>MW 9:00am - 11:30am | Seats (Total: 18)<br>ASY 2321 | Lab |
| 0501 | Irene Pantelis<br>TuTh 9:00am - 11:30am | Seats (Total: 18)<br>ASY 2317 | Lab |
| 0701 | Danielle Leizman<br>TuTh 3:30pm - 6:00pm | Seats (Total: 18)<br>ASY 2317 | Lab |
| 0801 | Danielle Leizman<br>TuTh 3:30pm - 6:00pm | Seats (Total: 18)<br>ASY 2321 | Lab |
| 0901 | Jowita Wyszomirska<br>TuTh 12:30pm - 3:00pm | Seats (Total: 18)<br>ASY 2317 | Lab |
| 1001 | Jowita Wyszomirska<br>TuTh 12:30pm - 3:00pm | Seats (Total: 18)<br>ASY 2321 | Lab |
| 1101 | Irene Pantelis<br>MW 12:30pm - 3:00pm | Seats (Total: 18)<br>ASY 2317 | Lab |
| 1201 | Irene Pantelis<br>MW 12:30pm - 3:00pm | Seats (Total: 18)<br>ASY 2321 | Lab |
| FC01 | Charlotte Richardson-Deppe<br>MW 6:00pm - 8:30pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>ASY 2321 | |

**ARTT110S** **Elements of Drawing I**

*Fundamental concepts, media, and processes of drawing. Emphasis on observation and representation in combination with individual expression. Subject matter includes still life, human figure, nature, the built environment, and conceptual projects.*

Restricted to College Park Scholars - Arts. Students must pay a $40.00 laboratory studio fee.

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|---|---|---|---|
| 0601 | Irene Pantelis<br>TuTh 9:00am - 11:30am | Seats (Total: 18)<br>ASY 2321 | Lab |

**ARTT150** **Introduction to Art Theory**

*Fundamental concepts of global, philosophic, and critical art theory examined through various historic and contemporary texts, and the analysis of works of art.*

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|---|---|---|---|
| 0101 | Katherine Guinness<br>MW 1:00pm - 1:50pm<br>M 11:00am - 11:50am | Seats (Total: 25)<br>JMZ 0220<br>ASY 3215 | Discussion |
| 0102 | Katherine Guinness<br>MW 1:00pm - 1:50pm<br>W 11:00am - 11:50am | Seats (Total: 25)<br>JMZ 0220<br>ASY 3211 | Discussion |
| 0103 | Katherine Guinness<br>MW 1:00pm - 1:50pm<br>W 12:00pm - 12:50pm | Seats (Total: 25)<br>JMZ 0220<br>KNI 1105 | Discussion |
| 0104 | Katherine Guinness<br>MW 1:00pm - 1:50pm<br>Tu 2:00pm - 2:50pm | Seats (Total: 25)<br>JMZ 0220<br>TWS 0205 | Discussion |
| 0105 | Katherine Guinness<br>MW 1:00pm - 1:50pm<br>Th 2:30pm - 3:20pm | Seats (Total: 25)<br>JMZ 0220<br>LEF 0135 | Discussion |
| 0106 | Katherine Guinness<br>MW 1:00pm - 1:50pm<br>Th 12:30pm - 1:20pm | Seats (Total: 25)<br>JMZ 0220<br>JMZ 0103 | Discussion |

**ARTT200** **Three-Dimensional Art Fundamentals**

*Prerequisite: ARTT100 and ARTT110.*

*Fundamental concepts of three-dimensional form and space examined through the manipulation and organization of various materials.*

Students must pay a $40.00 laboratory studio fee.

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| 0101 | Jeremy Kunkel<br>MW 9:00am - 11:30am | Seats (Total: 15)<br>ASY 1311 | Lab |

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|---|---|---|---|
| 0201 | Foon Sham<br>TuTh 12:30pm - 3:00pm | Seats (Total: 15)<br>ASY 1311 | Lab |
| 0301 | Charlotte Richardson-Deppe<br>MW 12:30pm - 3:00pm | Seats (Total: 15)<br>ASY 1311 | Lab |
| 0401 | Danielle Leizman<br>TuTh 9:00am - 11:30am | Seats (Total: 15)<br>ASY 1311 | Lab |

**ARTT210** **Elements of Drawing II**

*Prerequisite: ARTT110.*

*Continuation of ARTT110 with additional emphasis on color, figure drawing, and contemporary issues.*

Students must pay a $40.00 laboratory studio fee.

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|---|---|---|---|
| 0101 | Brandon Donahue<br>TuTh 12:30pm - 3:00pm | Seats (Total: 16)<br>ASY 2315 | Lab |
| 0201 | Matthew McLaughlin<br>MW 3:30pm - 6:00pm | Seats (Total: 16)<br>ASY 2315 | Lab |
| 0301 | Julia Kwon<br>MW 12:30pm - 3:00pm | Seats (Total: 16)<br>ASY 2315 | Lab |
| 0401 | Jowita Wyszomirska<br>TuTh 3:30pm - 6:00pm | Seats (Total: 16)<br>ASY 2315 | Lab |

**ARTT255** **Introduction to Digital Art and Design Processes**

*Prerequisite: ARTT100 and ARTT110. Credit only granted for: ARTT255 or ARTT354. Formerly: ARTT354.*

*Introduction to basic software and principles of digital imaging, and how they are applied to art and design. Topics covered: Digital image construction and manipulation, Vector-Based digital techniques layout, typography, etc), time-based digital techniques (video and audio composition and manipulation), and basic interactivity (web-design). Digital media used to explore visual principles established in ARTT100.*

Students must pay a $40.00 laboratory studio fee.

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| 0101 | Narendra Ratnapala<br>TuTh 12:30pm - 3:00pm | Seats (Total: 18)<br>ATL 1410 | Lab |

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|---|---|---|---|---|
| 0201 | Narendra Ratnapala<br>TuTh 3:30pm - 6:00pm | Seats (Total: 18)<br>ATL 1410 | Lab |
| 0301 | Shannon Collis<br>Class time/details on ELMs | Seats (Total: 18)<br>ONLINE | Lab |

**ARTT269R** **Special Topics in Study Abroad II; Art of Renaissance**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ARTT320** **Elements of Painting**

*Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.*

*Concepts and fundamental processes of oil and/or acrylic painting.*

Students must pay a $40.00 laboratory studio fee.

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|---|---|---|---|
| 0101 | Patrick Craig<br>TuTh 12:30pm - 3:00pm<br>*Emphasizes acrlic paint.* | Seats (Total: 18)<br>ASY 3312 | Lab |
| 0201 | Julia Kwon<br>MW 9:00am - 11:30am | Seats (Total: 12)<br>ASY 3322 | Lab |
| 0301 | Julia Kwon<br>MW 3:30pm - 6:00pm | Seats (Total: 18)<br>ASY 3322 | Lab |

**ARTT330** **Elements of Sculpture: Metal Casting**

*Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.*

*Sculptural concepts and fundamental processes related to metal casting.*

Students must pay a $40.00 laboratory studio fee.

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|---|---|---|---|
| 0101 | Jeremy Kunkel<br>MW 12:30pm - 3:00pm | Seats (Total: 12)<br>ASY 1310 | |

**ARTT330H** **Elements of Sculpture: Metal Casting**

(Perm req)

*Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.*

*Sculptural concepts and fundamental processes related to metal casting.*

Restricted to departmental honors students only. Students must pay a $40.00 laboratory fee.

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|---|---|---|
| 0101 | Jeremy Kunkel<br>MW 12:30pm - 3:00pm | Seats (Total: 2)<br>ASY 1310 |

**ARTT331** **Elements of Sculpture: Steel**

*Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.*

*Sculptural concepts and fundamental processes related to steel fabrication; torch cutting, welding, hot forging, and finishing.*

Students must pay a $40.00 laboratory studio fee.

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|---|---|---|
| 0101 | Jeremy Kunkel<br>MW 3:00pm - 5:30pm | Seats (Total: 10)<br>ASY 1314 |

**ARTT331H** **Elements of Sculpture: Steel**

(Perm req)

*Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.*

*Sculptural concepts and fundamental processes related to steel fabrication; torch cutting, welding, hot forging, and finishing.*

Restricted to departmental honors students only. Students must pay a $40.00 laboratory fee.

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|---|---|---|
| 0101 | Jeremy Kunkel<br>MW 3:00pm - 5:30pm | Seats (Total: 2)<br>ASY 1314 |

**ARTT333** **Elements of Sculpture: Wood and Mixed Media**

*Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.*

*Sculptural concepts and fundamental processes using wood and mixed media.*

Students must pay a $40.00 laboratory fee.

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|---|---|---|
| 0101 | Foon Sham<br>TuTh 3:00pm - 5:30pm | Seats (Total: 12)<br>ASY 1311 |

**ARTT341** **Elements of Printmaking: Woodcut and Relief**

*Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.*

*Concepts and fundamental processes related to woodcuts, linocuts, and other relief printing media.*

There is a $40.00 lab fee for this course.

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|---|---|---|---|
| 0101 | Jessica Gatlin<br>MW 12:30pm - 3:00pm | Seats (Total: 12)<br>ASY 1317 | Lab |

**ARTT341H** **Elements of Printmaking: Woodcut and Relief**

(Perm req)

*Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.*

*Concepts and fundamental processes related to woodcuts, linocuts, and other relief printing media.*

There is a $40.00 lab fee for this course. This course is restricted to departmental honors students only.

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|---|---|---|---|
| 0101 | Jessica Gatlin<br>MW 12:30pm - 3:00pm | Seats (Total: 2)<br>ASY 1317 | Lab |

**ARTT343** **Elements of Printmaking: Screen Printing**

*Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.*

*Concepts and fundamental processes related to silkscreen printing.*

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|---|---|---|
| 0101 | Justin Strom<br>TuTh 3:30pm - 6:00pm | Seats (Total: 12)<br>ASY 1317 |
| 0201 | Justin Strom<br>TuTh 12:30pm - 3:00pm | Seats (Total: 12)<br>ASY 1317 |

**ARTT343H** **Elements of Printmaking: Screen Printing**

(Perm req)

*Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.*

*Concepts and fundamental processes related to silkscreen printing.*

Students must pay a $40.00 laboratory studio fee. This course is restricted to departmental honors students only.

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|---|---|---|
| 0101 | Justin Strom<br>TuTh 3:30pm - 6:00pm | Seats (Total: 2)<br>ASY 1317 |
| 0201 | Justin Strom<br>TuTh 12:30pm - 3:00pm | Seats (Total: 2)<br>ASY 1317 |

**ARTT353** **Elements of Photography**

*Prerequisite: ARTT200, ARTT210, and ARTT150; or permission of ARHU-Art department.*

*Introduction to digital photographic image-making. With an emphasis on technical, aesthetic and conceptual understanding of the photographic medium, camera operation, and photographic composition. Students must have access to a Digital SLR or mirrorless camera capable of interchangeable lenses for this class.*

Students must pay a $40.00 laboratory studio fee.

| | | | |
|---|---|---|---|
| 0101 | Wendy Jacobs | Seats (Total: 14) | |
| | TuTh 3:30pm - 6:00pm | ASY 3304 | |
| | *Emphasis on Digital Photography, a DSLR camera is required for this section.* | | |

**ARTT355** **Intermediate Graphic Design Principles**

(Perm req)

*Prerequisite: ARTT150, ARTT200, ARTT210, and ARTT255; and must be admitted to the Graphic Design Concentration (Track 3). Credit only granted for: ARTT350 or ARTT355. Formerly: ARTT350.*

*Investigation of basic concepts, history, techniques, and materials used by professional graphic designers, focusing on typography. Explores various aspects of design related to typography through examination and production of many types of finished work.*

Students must pay $40.00 laboratory studio fee.

| | | | |
|---|---|---|---|
| 0101 | Antwon Key | Seats (Total: 25) | |
| | MW 9:30am - 12:00pm | ASY 2322 | Lab |

**ARTT356** **Graphic Design Processes**

(Perm req)

*Prerequisite: ARTT150, ARTT200, ARTT210, and ARTT255; and must have been admitted to Graphic Design Concentration (Track 3). Credit only granted for: ARTT351 or ARTT356. Formerly: ARTT351.*

*Explores computer graphics and visual communcation principles in a time-based context. Examination of fundamental design principles through digital projects that involve photo manipulation, digital illustration, layout, animation, and web design.*

Students must pay $40.00 laboratory studio fee.

| | | | |
|---|---|---|---|
| 0101 | Alireza Vaziri Rahimi | Seats (Total: 25) | |
| | MW 12:30pm - 3:00pm | ASY 2322 | Lab |

**ARTT368T** **Intermediate Special Topics in Art; The Contemporary Art World**

*Intermediate studio art and theory within the context of a special topic.*

| | | | |
|---|---|---|---|
| 0101 | Jason Kass | Seats (Total: 14) | |
| | Tu 9:30am - 12:00pm | JMZ 1104 | |

**ARTT369P** **Special Topics in Study Abroad III; Spain Seen by Photography**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

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**ARTT370** **Elements of Digital Media**

*Prerequisite: ARTT150, ARTT200, ARTT210, and ARTT255; or permission of ARHU-Art department.*

*Exploration of image creation and manipulation, interactivity, and linkages between digital audio and video. Emphasis on issues in contemporary digital art.*

Students must pay $40.00 laboratory studio fee.

| | | | |
|---|---|---|---|
| 0101 | Brandon Morse<br>TuTh 12:30pm - 3:00pm | Seats (Total: 14)<br>ASY 3304 | <br>Lab |
| 0201 | Stefano Passeri<br>MW 3:00pm - 5:30pm | Seats (Total: 14)<br>ASY 3304 | <br>Lab |
| 0301 | Stefano Passeri<br>TuTh 9:00am - 11:30am | Seats (Total: 15)<br>ASY 3304 | <br>Lab |

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**ARTT386** **Experiential Learning**

(Perm req)

*Prerequisite: Permission of ARHU-Art department.  Restriction: Junior standing or higher.*

**Contact department for information to register for this course.**

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**ARTT389** **Department of Art Undergraduate Teaching Assistantship**

(Perm req)

*Individual contractual agreement with faculty/mentor. Individualized assistantship in the teaching of a specified department course offering. Must have previously received an "A" grade for the class to be assisting.*

**Contact department for information to register for this course.**

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**ARTT399** **Department of Art Research Assistantship**

(Perm req)

*Individual contractual agreement with faculty/mentor. Individualized experiential learning developed in relation to art-related research issues.*

**Contact department for information to register for this course.**

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**ARTT409K** **Study Abroad Special Topics IV; New Media**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ARTT418B** **Advanced Drawing Studio; A Contemporary Approach**

*Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.*

Prerequisite: ARTT150, ARTT200, and ARTT210; plus one 300-level studio course; or permission of department. Students must pay a $40.00 laboratory studio fee. Repeatable to 12 credits.

| | | | |
|---|---|---|---|
| 0101 | Matthew McLaughlin | Seats (Total: 16) | |
| | MW 12:30pm - 3:00pm | ASY 2314 | Lab |
| | *This course emphasizes on concepts and techniques of illustration.* | | |
| 0201 | Charlotte Richardson-Deppe | Seats (Total: 16) | |
| | MW 3:30pm - 6:00pm | ASY 2314 | Lab |
| 0301 | Jowita Wyszomirska | Seats (Total: 16) | |
| | TuTh 3:30pm - 6:00pm | ASY 2314 | Lab |

**ARTT418H** **Advanced Drawing Studio; Honors**

*Multi-level drawing studio emphasizing advanced concepts and processes related to drawing; emphasis on contemporary art issues and individual directions.*

Restricted to departmental honors students only. Students must pay a $40.00 laboratory studio fee.

| | | | |
|---|---|---|---|
| 0101 | Matthew McLaughlin | Seats (Total: 2) | |
| | MW 12:30pm - 3:00pm | ASY 2314 | Lab |
| 0201 | Charlotte Richardson-Deppe | Seats (Total: 2) | |
| | MW 3:30pm - 6:00pm | ASY 2314 | Lab |
| 0301 | Jowita Wyszomirska | Seats (Total: 2) | |
| | TuTh 3:30pm - 6:00pm | ASY 2314 | Lab |

**ARTT426** **Advanced Painting: Painting on Site I**

*Prerequisite: ARTT320; or permission of the Art Department.*

*Designed for Art and design, architecture, urban planning, and public engagement majors seeking to gain more experience in the public art process. Through public artworks, students will explore ethical methods of community engagement, mural design and production. This course will have 1-2 visiting artists give lectures and/or participate in a workshop.*

| | | | |
|---|---|---|---|
| 0101 | Brandon Donahue | Seats (Total: 18) | |
| | MW 12:30pm - 3:00pm | ASY 3312 | Lab |

**ARTT428** **Advanced Painting Studio; Painting**

*Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions in chosen media.*

Prerequisite: ARTT320 or permission of the department. Students must pay a $40.00 laboratory studio fee. Repeatable to 12 credits. Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions.

| | | | |
|---|---|---|---|
| 0101 | Emily Conover<br>TuTh 12:30pm - 3:00pm | Seats (Total: 18)<br>ASY 3318 | Lab |
| 0201 | Emily Conover<br>TuTh 3:30pm - 6:00pm<br>*Emphasizes acrylic paint.* | Seats (Total: 18)<br>ASY 3316 | Lab |
| 0301 | Julia Kwon<br>MW 9:00am - 11:30am | Seats (Total: 4)<br>ASY 3322 | Lab |

**ARTT428F** **Advanced Painting Studio; Painting Techniques II**

*Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions in chosen media.*

**Contact department for information to register for this course.**

**ARTT428H** **Advanced Painting Studio; Honors**

*Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions in chosen media.*

Restricted to departmental honors students only. Students must pay a $40.00 laboratory studio fee.

| | | | |
|---|---|---|---|
| 0101 | Emily Conover<br>TuTh 12:30pm - 3:00pm | Seats (Total: 2)<br>ASY 3318 | |
| 0201 | Emily Conover<br>TuTh 3:30pm - 6:00pm<br>*Emphasizes Acrylic Paint* | Seats (Total: 2)<br>ASY 3316 | |
| 0301 | Richard Klank<br>MW 9:00am - 11:30am | Seats (Total: 2)<br>ASY 3322 | |
| 0401 | Brandon Donahue<br>TBA | Seats (Total: 2)<br>ASY 3318 | Lab |

**ARTT428X** **Advanced Painting Studio; Advanced Painting Studio**

*Multi-level painting studio emphasizing advanced concepts and processes related to oil and acrylic painting; emphasis on contemporary art issues and individual directions in chosen media.*

**Contact department for information to register for this course.**

**ARTT438A** **Advanced Sculpture Studio; Metal Casting and Mixed Media**

*Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.*

Prerequisite: Must have completed one 300-level sculpture course; or permission of instructor. Students must pay a $40.00 studio lab fee. Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.

| | | |
|---|---|---|
| 0101 | Jeremy Kunkel<br>MW 12:30pm - 3:00pm | Seats (Total: 4)<br>ASY 1310 |

**ARTT438D** **Advanced Sculpture Studio; Wood and Mixed Media**

(Perm req)

*Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.*

Restriction: Permission of ARHU-ART.

| | | |
|---|---|---|
| 0101 | Foon Sham<br>TuTh 3:00pm - 5:30pm | Seats (Total: 2)<br>ASY 1311 |

**ARTT438H** **Advanced Sculpture Studio**

*Multi-level sculpture studio; continuation of media-specific sculpture courses with emphasis on contemporary art issues and individual directions in chosen media.*

Restricted to departmental honors students only. Students must pay a $40.00 laboratory studio fee.

| | | |
|---|---|---|
| 0101 | Foon Sham<br>TuTh 3:00pm - 5:30pm | Seats (Total: 2)<br>ASY 1311 |

**ARTT454** **Advanced Graphic Design Principles: Design in Society**

(Perm req)

*Prerequisite: ARTT355 and ARTT356.*

*Focus on social responsibility and community activism. History and theory of propaganda and advocacy-based design. Students explore current design practices, work individually, and collaborate in teams with non-profits or other clients with community-based or socio-cultural agendas. Research and writing-intensive course.*

$40 laboratory studio fee.

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|---|---|---|---|---|
| 0101 | Antwon Key<br>TuTh 9:30am - 12:00pm | Seats (Total: 25)<br>ASY 2322 | Lab | |

**ARTT457** **Advanced Interactive Design**

(Perm req)

*Prerequisite: ARTT357.*

*Advanced concepts and techniques of interactive design and interactive software. Examination of corporate, client-based, and public service-based interactive graphic design. Emphasis on web-based interactive design structures.*

$40 laboratory studio fee.

| | | | |
|---|---|---|---|
| 0101 | Alireza Vaziri Rahimi<br>MW 3:30pm - 6:00pm | Seats (Total: 20)<br>ASY 2322 | Lab |

**ARTT460** **Seminar in Art Theory**

*Restriction: Senior standing.*

*Exploration of relationship between content and processes of art in a contemporary multi-cultural context.*

**Contact department for information to register for this course.**

**ARTT468A** **Seminar on the Interrelationship Between Art and Art Theory**

*The relationship between a student's work and the theoretical context of contemporary art.*

**Contact department for information to register for this course.**

**ARTT468W** **Seminar on the Interrelationship Between Art and Art Theory; History and Workshop of Latin America Photography**

*The relationship between a student's work and the theoretical context of contemporary art.*

**Contact department for information to register for this course.**

**ARTT479A** **Advanced Digital Media Studio; Code and Form**

*Variable multi-level studio emphasizing advanced concepts and processes related to time-based, projection, installation, interactive, and audio/visual integrated digital art. Emphasis on contemporary art issues and individual directions.*

Students must pay a $40.00 laboratory studio fee.

| | | | |
|---|---|---|---|
| 0101 | Cy Keener<br>MW 9:00am - 11:30am | Seats (Total: 15)<br>ASY 3304 | |

**ARTT479C** **Advanced Digital Media Studio**

*Variable multi-level studio emphasizing advanced concepts and processes related to time-based, projection, installation, interactive, and audio/visual integrated digital art. Emphasis on contemporary art issues and individual directions.*

Students must pay a $40.00 studio lab fee. Basics of sound recording, mixing, and processing, as well as creative applications of video projection-based practices, performance and installation art. Theoretical concepts central to sound and video projection as artistic media are also introduced.

| | | | |
|---|---|---|---|
| 0101 | Shannon Collis | Seats (Total: 14) | |
| | MW 12:30pm - 3:00pm | ASY 3304 | |

**ARTT479D** **Advanced Digital Media Studio; Immersive and Virtual Environments**

*Variable multi-level studio emphasizing advanced concepts and processes related to time-based, projection, installation, interactive, and audio/visual integrated digital art. Emphasis on contemporary art issues and individual directions.*

Introduction to the uses of game development software in an artistic context. Practical examination of interactive, immersive and installation art as mediated through the context of real-time computer generated imagery and game engine methodologies. Students must pay a $40.00 studio lab fee.

| | | | |
|---|---|---|---|
| 0101 | Mollye Bendell | Seats (Total: 14) | |
| | MW 6:00pm - 8:30pm | ASY 3304 | |

**ARTT479H** **Advanced Digital Media Studio; Honors Advanced Digital Media**

(Perm req)

*Variable multi-level studio emphasizing advanced concepts and processes related to time-based, projection, installation, interactive, and audio/visual integrated digital art. Emphasis on contemporary art issues and individual directions.*

Prerequisite: ARTT370. Restricted to Departmental Honors students. Students must pay a $40.00 studio lab fee.

| | | | |
|---|---|---|---|
| 0101 | Mollye Bendell | Seats (Total: 2) | |
| | MW 6:00pm - 8:30pm | ASY 3304 | Lab |
| | *Honors Immersive and Virtual Environments.* | | |
| 0201 | Cy Keener | Seats (Total: 2) | |
| | MW 9:00am - 11:30am | ASY 3304 | Lab |
| | *Honors Code and Form.* | | |

**ARTT480H** **Honors Seminar**

(Perm req)

*Team-taught seminar focusing on relationship between student's work and the theoretical context of contemporary art.*

Students must pay $40.00 laboratory fee.

| | | |
|---|---|---|
| 0101 | Cy Keener<br>F 10:00am - 1:30pm | Seats (Total: 7)<br>ASY 2311 |

**ARTT489C** **Advanced Special Topics in Art; Markets and Collecting**

*Advanced studio art and theory within the context of a special topic.*

Cross-listed with ARTH489V. Credit granted for ARTT489C or ARTH489V.

| | | |
|---|---|---|
| 0101 | Jason Kass<br>Th 9:30am - 12:00pm | Seats (Total: 14)<br>ARC 1125 |

**ARTT489I** **Advanced Special Topics in Art; Digital Imaging**

(Perm req)

*Advanced studio art and theory within the context of a special topic.*

Prerequisite: ARTT354. Students must pay a $40.00 laboratory studio fee.

**Contact department for information to register for this course.**

**ARTT489R** **Advanced Special Topics in Art; New Media**

*Advanced studio art and theory within the context of a special topic.*

**Contact department for information to register for this course.**

**ARTT498A** **Directed Studies in Studio Art**

(Perm req)

*Advanced independent work in Studio Art. Meeting with faculty and studio time arranged.*

Students must pay a $40.00 studio lab fee.

**Contact department for information to register for this course.**

**ARTT498B** **Directed Studies in Studio Art**

(Perm req)

*Advanced independent work in Studio Art. Meeting with faculty and studio time arranged.*

Students must pay a $40.00 studio lab fee.

**Contact department for information to register for this course.**

**ARTT498H** **Directed Studies in Studio Art; Honors Thesis**

(Perm req)

*Advanced independent work in Studio Art. Meeting with faculty and studio time arranged.*

Restricted to departmental honors students only. Prerequisite: permission of department. Students must pay a $40.00 studio lab fee.

**Contact department for information to register for this course.**

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**ARTT498I** **Directed Studies in Studio Art; Animation, Editing, and Special Effects**

*Advanced independent work in Studio Art. Meeting with faculty and studio time arranged.*

**Contact department for information to register for this course.**

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**ARTT618** **Drawing; Drawing**

(Perm req)

*Independent studies in drawing for advanced special students.*

Students must pay a $60.00 studio lab fee.

**Contact department for information to register for this course.**

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**ARTT628** **Painting; Painting**

(Perm req)

*Graduate painting for advanced special students.*

Students must pay a $60.00 studio lab fee.

**Contact department for information to register for this course.**

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**ARTT638** **Sculpture; Sculpture**

(Perm req)

*Independent studies in sculpture for advanced special students.*

Students must pay a $60.00 studio lab fee.

**Contact department for information to register for this course.**

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**ARTT648** **Printmaking; Printmaking**

(Perm req)

*Independent studies in printmaking for advanced special students.*

Students must pay a $60.00 studio lab fee.

**Contact department for information to register for this course.**

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**ARTT698A** **Directed Graduate Studies in Studio Art**

(Perm req)

*Independent work. Meetings with faculty and studio time arranged.*

Students must pay a $60.00 studio lab fee.

**Contact department for information to register for this course.**

**ARTT698B** **Directed Graduate Studies in Studio Art**

(Perm req)

*Independent work. Meetings with faculty and studio time arranged.*

Students must pay a $60.00 studio lab fee.

**Contact department for information to register for this course.**

**ARTT698C** **Directed Graduate Studies in Studio Art; Graduate Teaching Practicum**

(Perm req)

*Independent work. Meetings with faculty and studio time arranged.*

Students must pay a $60.00 studio lab fee.

**Contact department for information to register for this course.**

**ARTT699A** **Directed Graduate Studies in Studio Art**

(Perm req)

*Independent graduate studies.*

Students must pay a $60.00 studio lab fee.

**Contact department for information to register for this course.**

**ARTT699B** **Directed Graduate Studies in Studio Art**

(Perm req)

*Independent graduate studies.*

Students must pay a $60.00 studio lab fee.

**Contact department for information to register for this course.**

**ARTT718** **Drawing; Drawing**

(Perm req)

*Independent studies in drawing for advanced special students.*

Students must pay a $60.00 studio lab fee.

**Contact department for information to register for this course.**

**ARTT728** **Painting; Painting**

(Perm req)

*Independent studies in painting for advanced special students.*

Students must pay a $60.00 studio lab fee.

**Contact department for information to register for this course.**

**ARTT738** **Sculpture; Sculpture**

(Perm req)

*Independent studies in sculpture for advanced special students.*

Students must pay a $60.00 studio lab fee.

**Contact department for information to register for this course.**

**ARTT748** **Printmaking; Printmaking**

(Perm req)

*Independent studies in printmaking for advanced special students.*

Students must pay a $60.00 studio lab fee.

**Contact department for information to register for this course.**

**ARTT768** **Graduate Colloquium**

(Perm req)

*Examines various aspects of art, art theory and criticism in a contemporary and multi-cultural context. Relates student work to this context.*

Students must pay a $60.00 laboratory studio fee.

| | | |
|---|---|---|
| 0101 | Katherine Guinness | Seats (Total: 20) |
| | Th 6:30pm - 9:30pm | ONLINE |

**ARTT798A** **Directed Graduate Studies in Studio Art**

(Perm req)

*Independent graduate studies.*

Students must pay a $60.00 studio lab fee.

**Contact department for information to register for this course.**

**ARTT798B** **Directed Graduate Studies in Studio Art**

(Perm req)

*Independent graduate studies.*

Students must pay a $60.00 studio lab fee.

**Contact department for information to register for this course.**

**ARTT799** **Master's Thesis Research**
**Contact department for information to register for this course.**

# ASTR Astronomy Fall 2024

**ASTR100** **Introduction to Astronomy**

*Credit only granted for: ASTR100, ASTR101, or ASTR120.*

*An elementary course in descriptive astronomy, especially appropriate for non-science students. Topics include the Sun, Moon, planets, stars, and nebulae, galaxies, and evolution of the Universe.*

| | | | |
|---|---|---|---|
| 0101 | Douglas Hamilton<br>TuTh 9:30am - 10:45am<br>M 1:00pm - 1:50pm | Seats (Total: 40)<br>PHY 1412<br>ATL 1114 | Discussion |
| 0102 | Douglas Hamilton<br>TuTh 9:30am - 10:45am<br>M 2:00pm - 2:50pm | Seats (Total: 40)<br>PHY 1412<br>ATL 1114 | Discussion |
| 0103 | Douglas Hamilton<br>TuTh 9:30am - 10:45am<br>M 3:00pm - 3:50pm | Seats (Total: 40)<br>PHY 1412<br>ATL 1114 | Discussion |
| 0104 | Douglas Hamilton<br>TuTh 9:30am - 10:45am<br>F 10:00am - 10:50am | Seats (Total: 40)<br>PHY 1412<br>ATL 1113 | Discussion |
| 0105 | Douglas Hamilton<br>TuTh 9:30am - 10:45am<br>F 11:00am - 11:50am | Seats (Total: 40)<br>PHY 1412<br>ATL 2428 | Discussion |
| 0106 | Douglas Hamilton<br>TuTh 9:30am - 10:45am<br>F 12:00pm - 12:50pm | Seats (Total: 40)<br>PHY 1412<br>ATL 1114 | Discussion |
| FC01 | James Hunt<br>TuTh 6:00pm - 7:15pm<br>F 1:00pm - 1:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 30)<br>ATL 2400<br>ATL 2400 | Discussion |

**ASTR101 General Astronomy**

*Credit only granted for: ASTR100, ASTR101, or ASTR120.*

*Descriptive astronomy, appropriate for non-science majors. Sun, moon, planets, stars, nebulae, galaxies and evolution. Laboratory exercises include use of photographic material, computer simulations, and standard laboratory equipment.*

Discussion sections and lab sections do not meet the first week of classes. Attend lecture before coming to discussion or lab sections. Students must pay a $50.00 Laboratory Materials fee.

| | | | |
|---|---|---|---|
| 0101 | Marvin Jones | Seats (Total: 20) | |
| | TuTh 11:00am - 12:15pm | PHY 1412 | |
| | Tu 5:30pm - 7:30pm | ATL 0254 | Lab |
| | Tu 3:30pm - 4:20pm | ATL 2400 | Discussion |
| 0102 | Marvin Jones | Seats (Total: 20) | |
| | TuTh 11:00am - 12:15pm | PHY 1412 | |
| | W 8:30am - 10:30am | ATL 0254 | Lab |
| | Tu 3:30pm - 4:20pm | ATL 2400 | Discussion |
| 0103 | Marvin Jones | Seats (Total: 20) | |
| | TuTh 11:00am - 12:15pm | PHY 1412 | |
| | W 11:00am - 1:00pm | ATL 0254 | Lab |
| | W 10:00am - 10:50am | ATL 2400 | Discussion |
| 0104 | Marvin Jones | Seats (Total: 20) | |
| | TuTh 11:00am - 12:15pm | PHY 1412 | |
| | Th 3:30pm - 5:30pm | ATL 0254 | Lab |
| | W 10:00am - 10:50am | ATL 2400 | Discussion |
| 0105 | Marvin Jones | Seats (Total: 20) | |
| | TuTh 11:00am - 12:15pm | PHY 1412 | |
| | W 1:00pm - 3:00pm | ATL 0254 | Lab |
| | W 11:00am - 11:50am | ATL 2400 | Discussion |
| 0106 | Marvin Jones | Seats (Total: 20) | |
| | TuTh 11:00am - 12:15pm | PHY 1412 | |
| | Th 8:30am - 10:30am | ATL 0254 | Lab |
| | W 11:00am - 11:50am | ATL 2400 | Discussion |
| 0107 | Marvin Jones | Seats (Total: 20) | |
| | TuTh 11:00am - 12:15pm | PHY 1412 | |
| | W 6:00pm - 8:00pm | ATL 0254 | Lab |
| | W 12:00pm - 12:50pm | ATL 1113 | Discussion |
| 0108 | Marvin Jones | Seats (Total: 20) | |
| | TuTh 11:00am - 12:15pm | PHY 1412 | |
| | Th 6:00pm - 8:00pm | ATL 0254 | Lab |
| | W 12:00pm - 12:50pm | ATL 1113 | Discussion |

| | | | |
|---|---|---|---|
| 0109 | Marvin Jones | Seats (Total: 20) | |
| | TuTh 11:00am - 12:15pm | PHY 1412 | |
| | F 9:00am - 11:00am | ATL 0254 | Lab |
| | W 1:00pm - 1:50pm | ATL 2400 | Discussion |
| 0110 | Marvin Jones | Seats (Total: 20) | |
| | TuTh 11:00am - 12:15pm | PHY 1412 | |
| | F 12:00pm - 2:00pm | ATL 0254 | Lab |
| | W 1:00pm - 1:50pm | ATL 2400 | Discussion |
| FC01 | James Hunt | Seats (Total: 12) | |
| | TuTh 6:00pm - 7:15pm | ATL 2400 | |
| | M 6:00pm - 8:00pm | ATL 0254 | Lab |
| | F 1:00pm - 1:50pm | ATL 2400 | Discussion |
| | *Restricted to students in Freshmen Connection.* | | |

**ASTR120** **Introductory Astrophysics - Solar System**

*Prerequisite: Must have completed or be concurrently enrolled in MATH140. Restriction: Must not have completed ASTR101 or ASTR100. Credit only granted for: ASTR100, ASTR101, or ASTR120.*

*For students majoring in astronomy or with a strong interest in science. Topics include development of astronomy, planetary orbits, electromagnetic radiation, telescopes as well as constituents and origin of the solar system (planets, satellites, comets, asteroids, meteoroids, etc.).*

| | | | |
|---|---|---|---|
| 0101 | Michael Miller | Seats (Total: 30) | |
| | TuTh 11:00am - 12:15pm | ESJ 1215 | |
| | F 1:00pm - 1:50pm | ESJ 1309 | Discussion |
| 0102 | Michael Miller | Seats (Total: 30) | |
| | TuTh 11:00am - 12:15pm | ESJ 1215 | |
| | F 2:00pm - 2:50pm | ESJ 1309 | Discussion |

**ASTR230** **The Science and Fiction of Planetary Systems**

*Prerequisite: Must have math eligibility of MATH115 or higher; or MATH113.*

*Have you ever wondered if humans will ever terraform Mars or Europa so we could live there without a spacesuit? Has it ever crossed your mind how lucky you are that you live on a water-rich planet with an oxygen-rich atmosphere? Have you ever suspected novelists and scriptwriters of creating ridiculous planets that violate scientific laws? Does the fate of our planet's thin biosphere keep you up at night? How common is life in the Universe? These are difficult questions, but armed with the right information, you can answer all of them. The Science and Fiction of Planetary Systems will help you develop a deeper understanding of why planets are the way they are. Along the way, you'll see examples of mistakes made in classic science fiction movies, novels and short stories and get the chance to invent your own plausible planets!*

| | | | |
|---|---|---|---|
| 0101 | Marvin Jones<br>W 9:00am - 9:50am<br>MWF 12:00pm - 12:50pm | Seats (Total: 36)<br>ESJ 1215<br>PLS 1117 | <br><br>Discussion |
| 0102 | Marvin Jones<br>W 9:00am - 9:50am<br>MWF 1:00pm - 1:50pm | Seats (Total: 36)<br>ESJ 1215<br>PLS 1117 | <br><br>Discussion |

**ASTR288** **Special Projects in Astronomy**

(Perm req)

*Independent study, short research projects, tutorial reading, and assisting with faculty research and teaching under special supervision.*

A faculty sponsor must be found by the students prior to enrollment.

**Contact department for information to register for this course.**

**ASTR288B** **Special Projects in Astronomy; Mathematics in Astronomy**

(Perm req)

*Independent study, short research projects, tutorial reading, and assisting with faculty research and teaching under special supervision.*

This course is offered to Astronomy majors only.

| | | |
|---|---|---|
| 0101 | Marvin Jones<br>MW 10:00am - 10:50am | Seats (Total: 22)<br>ESJ B0320 |

**ASTR288I** **Special Projects in Astronomy; Introduction to the Astronomy Major**

(Perm req)

*Independent study, short research projects, tutorial reading, and assisting with faculty research and teaching under special supervision.*

Prerequisite: permission of department.

| | | |
|---|---|---|
| 0101 | Andrew Harris, Melissa Hayes-Gehrke<br>M 4:00pm - 4:50pm | Seats (Total: 20)<br>ATL 1114 |
| 0201 | Andrew Harris, Melissa Hayes-Gehrke<br>Tu 4:00pm - 4:50pm | Seats (Total: 20)<br>ATL 1114 |

**ASTR300** **Stars and Stellar Systems**

*Prerequisite: ASTR100 or ASTR101; and completion of the CORE Distributive Studies requirement in Mathematics and Sciences or General Education Fundamental Studies requirement in Mathematics. Or permission of CMNS-Astronomy department.*

*Designed primarily for non-science majors. Study of stars-types, properties, evolution, and distribution in space; supernovae, pulsars, and black holes.*

| | | | |
|---|---|---|---|
| 0101 | Timothy Livengood<br>TuTh 11:00am - 12:15pm | Seats (Total: 60)<br>ATL 2400 | |

**ASTR310 Observational Astronomy**

*Prerequisite: ASTR121; and (PHYS171 or PHYS161). Or permission of CMNS-Astronomy department. Restriction: Must be in Astronomy program.*

*Introduction to current optical observational techniques, with brief coverage of infrared, ultraviolet, and x-ray techniques. Statistics, spherical trigonometry time, catalogs, geometrical and physical optics, telescopes, and optical instruments. Effects of the atmosphere. Practical work at the observatory using a CCD camera. Some nighttime observing sessions.*

| | | | |
|---|---|---|---|
| 0101 | Melissa Hayes-Gehrke<br>TuTh 2:00pm - 3:15pm<br>M 9:00am - 10:50am | Seats (Total: 15)<br>ATL 1114<br>ATL 0224 | <br><br>Lab |
| 0102 | Melissa Hayes-Gehrke<br>TuTh 2:00pm - 3:15pm<br>M 1:00pm - 2:50pm | Seats (Total: 15)<br>ATL 1114<br>ATL 0224 | <br><br>Lab |

**ASTR330 Solar System Astronomy**

*Prerequisite: ASTR100 or ASTR101; and completion of the CORE Distributive Studies requirement in Mathematics and Sciences or the General Education Fundamental Studies requirement in Mathematics. Or permission of CMNS-Astronomy department. Credit only granted for: ASTR330 or GEOL212.*

*Designed primarily for non-science majors. The structure of planets and of their atmospheres, the nature of comets, asteroids, and satellites. Comparison of various theories for the origin of the solar system. Emphasis on a description of recent data and interpretation.*

| | | | |
|---|---|---|---|
| 0101 | Timothy Livengood<br>TuTh 12:30pm - 1:45pm | Seats (Total: 60)<br>ATL 2400 | |

**ASTR340 Origin of the Universe**

*Prerequisite: ASTR100 or ASTR101; and completion of the CORE Distributive Studies requirement in Mathematics and Sciences or General Education Fundamental Studies requirement in Mathematics. Or permission of CMNS-Astronomy department.*

*Designed primarily for non-science majors. A study of our progression of knowledge about the universe. Topics include: early cosmological models, geocentric vs. heliocentric theory, curvature of space, Hubble's Law, Big Bang Theory, microwave background radiation, evolution of stars and galaxies, dark matter, active galaxies, quasars and the future of the universe.*

| | | |
|---|---|---|
| 0101 | Sylvain Veilleux | Seats (Total: 60) |
| | TuTh 9:30am - 10:45am | ATL 2400 |

**ASTR380** **Life in the Universe - Astrobiology**

*Designed primarily for non-science majors. Study of the astronomical perspective on the conditions for the origin and existence of life in the universe.*

| | | |
|---|---|---|
| 0101 | Alberto Bolatto | Seats (Total: 60) |
| | TuTh 2:00pm - 3:15pm | ATL 2400 |

**ASTR399** **Honors Seminar**

(Perm req)

*Credit according to work done.*

**Contact department for information to register for this course.**

**ASTR415** **Computational Astrophysics**

*Prerequisite: ASTR121; and (PHYS271 and PHYS270; or PHYS273). Or permission of CMNS-Astronomy department. Jointly offered with ASTR615. Credit only granted for: ASTR415 or ASTR615.*

*Introduction to the most important computational techniques being used in research in astrophysics. Topics include modern high performance computer architectures, scientific visualization and data analysis, and detailed descriptions of numerical algorithms for the solution to a wide range of mathematical systems important in astrophysics.*

| | | |
|---|---|---|
| 0101 | Massimo Ricotti | Seats (Total: 30) |
| | TuTh 2:00pm - 3:15pm | ATL 2428 |

**ASTR480** **High Energy Astrophysics**

*Prerequisite: Must have completed or be concurrently enrolled in ASTR320; or permission of CMNS-Astronomy department.*

*The structure, formation, and astrophysics of compact objects, such as white dwarfs, neutron stars, and black holes, are examined. Phenomena such as supernovae and high-energy particles are also covered.*

| | | |
|---|---|---|
| 0101 | Richard Mushotzky | Seats (Total: 30) |
| | TuTh 12:30pm - 1:45pm | ATL 2428 |

**ASTR498** **Special Problems in Astronomy**

(Perm req)

*Research or special study. Credit according to work done.*

**Contact department for information to register for this course.**

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**ASTR601** **Radiative Processes**

(Perm req)

*Restriction: Permission of CMNS-Astronomy department.*

*Emission, absorption, and scattering of radiation by matter, with astrophysical applications. Thermodynamics and statistical mechanics: LTE, Boltzmann, and Saha equations; radiative transfer; atomic and molecular radiation; plasma radiation and transfer: bremsstrahlung, synchrotron emission, Compton scattering.*

| | | |
|---|---|---|
| 0101 | Eliza Kempton | Seats (Total: 20) |
| | TuTh 2:00pm - 3:15pm | ATL 0201 |

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**ASTR630** **Planetary Science**

*Restriction: Permission of CMNS-Astronomy department.*

*The science of our planetary system with an emphasis on the aspects of it, that help us understand the origin of the system and thus the relevance to other planetary systems. Topics will include planetary atmospheres, surfaces, and interiors and the small bodies of the solar system (asteroids, comets, Kuiper-belt objects). We will consider the dynamics of these bodies and the physics and chemistry of these bodies.*

| | | |
|---|---|---|
| 0101 | Jessica Sunshine | Seats (Total: 20) |
| | MW 2:00pm - 3:15pm | ATL 0201 |

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**ASTR680** **High Energy Astrophysics**

*Restriction: Permission of CMNS-Astronomy department. Formerly: ASTR688M.*

*The structure, formation, and astrophysics of compact objects, such as white dwarfs, neutron stars, and black holes, are examined.*

| | | |
|---|---|---|
| 0101 | Christopher Reynolds | Seats (Total: 20) |
| | TuTh 12:30pm - 1:45pm | ATL 0201 |

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**ASTR688B** **Special Topics in Modern Astronomy; Current Astronomy Research**

(Perm req)

*Special topics such as extragalactic radio sources, plasma astrophysics, the H.R. diagram, chemistry of the interstellar medium, radiophysics of the sun.*

| | | |
|---|---|---|
| 0101 | Andrew Harris<br>W 3:30pm - 5:30pm | Seats (Total: 30)<br>ATL 2400 |

**ASTR695** **Introduction to Research**

(Perm req)

*Provides an introduction to research programs in the Department of Astronomy and a forum to explore possible research projects. Aimed at incoming graduate students.*

| | | |
|---|---|---|
| 0101 | Eliza Kempton<br>M 10:00am - 10:50am | Seats (Total: 20)<br>PSC 1148 |

**ASTR699** **Special Problems in Advanced Astronomy**

(Perm req)

**Contact department for information to register for this course.**

**ASTR799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**ASTR898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**ASTR899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# BCHM Biochemistry Fall 2024

*The College of Computer, Mathematical and Natural Sciences enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course.*

**BCHM461** **Biochemistry I**

*Prerequisite: Minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. Credit only granted for: BCHM461 or BCHM463.*

*First semester of a comprehensive introduction to modern biochemistry. Structure, chemical properties, and function of proteins and enzymes, carbohydrates, lipids, and nucleic acids. Basic enzyme kinetics and catalytic mechanisms.*

| | | |
|---|---|---|
| 0101 | Jinwoo Lee<br>TuTh 9:30am - 10:45am | Seats (Total: 93)<br>CHM 1402 |
| 0102 | Paul Paukstelis<br>MW 4:00pm - 5:15pm | Seats (Total: 93)<br>CHM 1402 |

| | | |
|---|---|---|
| 0103 | David Fushman<br>TuTh 12:30pm - 1:45pm | Seats (Total: 93)<br>CHM 1402 |

**BCHM462 Biochemistry II**

*Prerequisite: Minimum grade of C- in BCHM461. Credit only granted for: BCHM462 or BCHM463.*

*A continuation of BCHM 461. Metabolic pathways and metabolic regulation, energy transduction in biological systems, enzyme catalytic mechanisms.*

| | | |
|---|---|---|
| 0102 | Bonnie Dixon<br>MWF 11:00am - 11:50am | Seats (Total: 100)<br>CHM 1402 |

**BCHM463 Biochemistry of Physiology**

*Prerequisite: Minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. Credit only granted for: BCHM461, BCHM462 or BCHM463.*

*A one-semester introduction to general biochemistry. A study of protein structure, enzyme catalysis, metabolism, and metabolic regulation with respect to their relationship to physiology.*

| | | |
|---|---|---|
| 0101 | Christiana Guest<br>TuTh 11:00am - 12:15pm | Seats (Total: 117)<br>CHM 1402 |
| 0103 | Christopher Capp<br>MWF 12:00pm - 12:50pm | Seats (Total: 117)<br>CHM 1402 |
| ESG1 | Heather Tienson-Tseng<br>W 12:30pm - 1:20pm<br>F 10:00am - 11:40am<br>*Registration is restricted to Biological Sciences-Shady Grove majors.* | Seats (Total: 50)<br>BLD4 3321<br>BLD4 3321 |
| SEF1 | Christopher Capp<br>M 6:00pm - 8:50pm<br>*Must be in the Science in the Evening (SIE) program.* | Seats (Total: 40)<br>CHM 2201 |

**BCHM464 Biochemistry Laboratory**

*Prerequisite: BCHM461 or BCHM463; and a grade of C- or better in the prerequisite is required for all College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: BCHM465. Restriction: BCHM, CHEM, and Nutritional Sciences majors have first priority, followed by other life science majors.*

*Biochemical and genetic methods for studying protein function. Site-directed mutagenesis and molecular cloning, protein purification, enzyme activity assays, computer modeling of protein structure.*

Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 0101 | Christopher Capp<br>Tu 11:00am - 12:15pm<br>Th 12:30pm - 5:30pm | Seats (Total: 18)<br>PLS 1111<br>ESJ 0316 | <br><br>Lab |
| 0102 | Christopher Capp<br>Tu 11:00am - 12:15pm<br>W 12:00pm - 5:00pm | Seats (Total: 18)<br>PLS 1111<br>ESJ 0316 | <br><br>Lab |

**BCHM465 Biochemistry III**

*Prerequisite: BCHM461 or BCHM463; and a grade of C- or better in the prerequisite is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Recommended: BCHM462.*

*CORE Capstone (CS) Course. An advanced course in biochemistry. Biochemical approach to cellular information processing. DNA and RNA structure. DNA replication, transcription, and repair. Translation of mRNA to make proteins.*

| | | |
|---|---|---|
| 0101 | Theodore Dayie<br>TuTh 8:00am - 9:15am | Seats (Total: 45)<br>CHM 1228 |

**BCHM477 Biomolecular Measurement and Data Analysis**

*Prerequisite: CHEM271 or CHEM276; and (CHEM277 or CHEM272). Restriction: Must be in the Chemistry or Biochemistry major.*

*Covers a range of classic and modern biochemical assays and techniques as well as introducing data science approaches to "omics" data. Upon successful completion of this course, students should have the necessary preparation and experience to collaborate productively with research scientists in industrial, clinical or academic contexts.*

| | | | |
|---|---|---|---|
| 0101 | Jason Kahn<br>MW 3:00pm - 3:50pm<br>Th 2:00pm - 4:50pm | Seats (Total: 18)<br>PLS 1111<br>ESJ 1324 | <br><br>Lab |

**BCHM661 Nucleic Acids I**

*Prerequisite: BSCI410 and BCHM465.*

*Topics covered: Chemistry and structure of DNA and RNA, from nucleotides to chromatin, chromosomes, and genomes, and some methods for studying, synthesizing, sequencing and manipulating nucleic acids. Rudimentary genomics and bioinformatics. DNA Biology: selected aspects of the biochemistry and regulation of DNA replication, repair, and recombination, and how these processes interact with each other.*

| | | |
|---|---|---|
| 0101 | Paul Paukstelis<br>**Meets August 26, 2024 - October 15, 2024**<br>MWF 9:30am - 10:50am | Seats (Total: 45)<br><br>CHM 1224 |

**BCHM662** **Nucleic Acids II**

*Prerequisite: BCHM661.*

*Topics covered: Interactions between nucleic acids and ligands such as cations, drugs, and especially proteins. Sources of binding affinity and specificity. Selection-amplification methods. Description of several classes of protein-nucleic acids complexes. DNA/RNA catalysis, the origin of life, mobile genetic elements.*

| | | |
|---|---|---|
| 0101 | Jason Kahn<br>**Meets October 16, 2024 - December 9, 2024**<br>MWF 9:30am - 10:50am | Seats (Total: 45)<br><br>CHM 1224 |

**BCHM671** **Protein Chemistry and Enzymic Catalysis**

*Prerequisite: BCHM461; or students who have taken courses with comparable content may contact the department.*

*Principles of protein structure, folding, and function, experimental characterization of structure, active sites, enzyme mechanisms and kinetics.*

| | | |
|---|---|---|
| 0101 | Yanxin Liu<br>TuTh 9:30am - 10:50am | Seats (Total: 31)<br>BSB 2118 |

**BCHM698** **Literature Seminar in Biochemistry**

*Students will prepare and present a departmental seminar based on a topic in the current biochemical research literature.*

| | | |
|---|---|---|
| 0101 | Myles Poulin<br>Contact instructor or department for details. | Seats (Total: 10) |

**BCHM699** **Special Problems in Biochemistry**

*Laboratory experience in a research environment. Restricted to students in the non-thesis M.S. option.*

Open only to non-thesis M.S. degree candidates.

**Contact department for information to register for this course.**

**BCHM799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**BCHM889A** **Seminar; Biochemistry**

| | | |
|---|---|---|
| 0101 | Yanxin Liu<br>Tu 11:00am - 12:15pm | Seats (Total: 75)<br>CHM 1112 |

**BCHM889C** **Seminar; Allostery in DNA Binding**

(Perm req)

| | | |
|---|---|---|
| 0101 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 10) |

**BCHM889D** **Seminar; Enzymology Recombination**

(Perm req)

| | | |
|---|---|---|
| 0101 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 10) |

**BCHM889F** **Seminar; Antimicrobial Peptides**

(Perm req)

| | | |
|---|---|---|
| 0101 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 10) |

**BCHM889J** **Seminar; Nucleic Acid Structures**

(Perm req)

| | | |
|---|---|---|
| 0101 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 10) |

**BCHM889M** **Seminar; Modern Methods in NMR and Structural Biology**

| | | |
|---|---|---|
| 0101 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 40) |

**BCHM889P** **Seminar; Structure and Reactivity of Biopolymers**

(Perm req)

| | | |
|---|---|---|
| 0101 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 10) |

**BCHM898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**BCHM899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

**BDBA804** **Big Data and AI for Business**

*Restriction: Must be in Doctor of Business Administration (BDBA) program; or permission of the Robert H. Smith School of Business.*

*Big data offers immense potential for insights and wealth creation, generating vast data volumes. This data is often unstructured and real-time, challenging traditional data management and presenting both challenges and opportunities. Advanced techniques, especially AI, are essential for harnessing data value. This course emphasizes hands-on learning about Big Data and AI, including strategic implications and technological underpinnings with tools like deep learning and AWS. Through practical examples and assignments, it aims to build familiarity with these technologies and foster strategic business thinking. The evolving tech landscape necessitates a flexible learning approach, ensuring manageable student workloads.*

Cross-listed with BMSO758Q. Credit only granted for BMSO758Q or BDBA804.

| | | |
|---|---|---|
| WN01 | Kunpeng Zhang | Seats (Total: 0) |
| | Tu 7:00pm - 8:30pm | ONLINE |
| | Class time/details on ELMs | ONLINE |

**BDBA806** **Executive Decision Making in the Age of AI**

*Restriction: Must be in Doctor of Business Administration (BDBA) program; or permission of the Robert H. Smith School of Business.*

*Artificial Intelligence (AI), in an unprecedented and transformational manner, has recently opened up new possibilities for firms that significantly affect how humans aided with technology make decisions. This course will focus on understanding AI capabilities (including predictive and generative models), designing effective decision-making frameworks that incorporate AI and humans, building a deep appreciation and understanding of some key issues surrounding AI in organizations, and helping develop governance structures for AI in organizations.*

| | | |
|---|---|---|
| 0101 | Balaji Padmanabhan | Seats (Total: 12) |
| | **Meets August 23, 2024 - December 6, 2024** | |
| | F 2:15pm - 7:00pm | Location: TBA |

**BDBA808A** **Special Topics in Information Systems; Independent Research Study**

*Special topics specific to the Information Systems doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Jui Ramaprasad | Seats (Total: 12) |
| | **Meets August 23, 2024 - December 6, 2024** | |
| | Class time/details on ELMs | ONLINE |

**BDBA808C** **Special Topics in Information Systems; Designing AI Systems**

(Perm req)

*Special topics specific to the Information Systems doctoral field of study.*

Cross-listed with BUSM758V. Credit only granted for BUSM758V or BDBA808C.

| | | |
|---|---|---|
| 0101 | Kunpeng Zhang | Seats (Total: 42) |
| | **Meets August 26, 2024 - October 14, 2024** | |
| | TuTh 10:00am - 11:50am | VMH 1202 |

**BDBA808E** **Special Topics in Information Systems; Data Visualization**

(Perm req)

*Special topics specific to the Information Systems doctoral field of study.*

Cross-listed with BMSO758V. Credit only granted for BMSO758V or BDBA808E.

| | | |
|---|---|---|
| WN01 | Bharti Motwani | Seats (Total: 0) |
| | **Meets August 26, 2024 - December 9, 2024** | |
| | M 7:00pm - 8:30pm | ONLINE |
| | Class time/details on ELMs | ONLINE |

**BDBA808P** **Special Topics in Information Systems; Data Processing and Analysis in Python**

*Special topics specific to the Information Systems doctoral field of study.*

Cross-listed with BMSO758P. Credit only granted for BMSO758P or BDBA808P.

| | | |
|---|---|---|
| WN01 | John Bono | Seats (Total: 0) |
| | **Meets August 26, 2024 - December 9, 2024** | |
| | Th 7:00pm - 8:30pm | ONLINE |
| | Class time/details on ELMs | ONLINE |

**BDBA820** **Economics for Business Research**

*Restriction: Must be in Doctor of Business Administration (BDBA) program; or permission of the Robert H. Smith School of Business.*

*Investigating the implications of the major findings of behavioral economics for policymakers. Analysis of the ways in which individuals make decisions that systematically depart from the standard model, which assumes perfect rationality, perfect selfishness, and perfect willpower. Students will develop an understanding of how models are constructed, and how this forms the basis for empirical estimation strategies. We first discuss concepts such as endowment effect, loss aversion, and status-quo bias. Then we introduce uncertainty. The standard model of decision-making under uncertainty is the expected utility model. We then go on to describe some empirical evidence from both economics and psychology to illustrate violations of the expected utility model. Next, we will discuss intertemporal choice. After introducing the standard model of discounting, we will again discuss some observed violations of the standard model in the data.*

| | | |
|---|---|---|
| 0101 | Erkut Ozbay<br>**Meets August 24, 2024 - December 7, 2024**<br>Sa 8:30am - 1:15pm | Seats (Total: 12)<br><br>Location: TBA |

**BDBA822** **Quantitative Research Methods**

*Restriction: Must be in Doctor of Business Administration (BDBA) program; or permission of the Robert H. Smith School of Business.*

*This is a course in basic statistics. Statistical methodologies are increasingly used in various disciplines, e.g., data science, applied statistics, business, and computational social science. The main goal of this course is to provide students with an introduction to different types of quantitative research methods and statistical techniques. This course primarily covers two components: 1) methods for quantitative research, and 2) quantitative statistical methods for data analysis. With these, we hope you will obtain knowledge necessary to do high quality scholarly research and more efficient and effective practice in your daily tasks. In particular, it involves learning statistical inference under which you should be able to digest publications about new methods, implement these methods, apply them to your data, interpret results, and explain them to others. In addition, we also expect you to know how to write and publish your novel work in some journals.*

| | | |
|---|---|---|
| 0101 | Kunpeng Zhang<br>**Meets August 23, 2024 - December 6, 2024**<br>F 2:15pm - 7:00pm | Seats (Total: 12)<br><br>Location: TBA |

**BDBA858A** **Special Topics in Marketing; Customer Analysis**

(Perm req)

*Special topics specific to the Marketing doctoral field of study.*

Cross-listed with BUMK724. Credit only granted for BUMK724 or BDBA858A.

| | | |
|---|---|---|
| 0501 | Ali Faraji-Rad<br>**Meets August 26, 2024 - December 9, 2024**<br>MW 12:30pm - 1:45pm | Seats (Total: 0)<br><br>VMH 1511 |

**BDBA858G** **Special Topics in Marketing; Marketing Analytics**

(Perm req)

*Special topics specific to the Marketing doctoral field of study.*

Cross-listed with BUSO758A. Credit only granted for BUSO758A or BDBA858G.

| | | |
|---|---|---|
| SO51 | Pallassana Kannan<br>**Meets October 21, 2024 - December 10, 2024**<br>M 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br>ONLINE<br>ONLINE |

**BDBA858J** **Special Topics in Marketing; Social Media and Web Analytics**

(Perm req)

*Special topics specific to the Marketing doctoral field of study.*

Cross-listed with BUSO731. Credit only granted for BUSO731 or BDBA858J.

| | | |
|---|---|---|
| SO52 | Siva Viswanathan<br>**Meets October 21, 2024 - December 10, 2024**<br>Tu 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 28)<br><br>ONLINE<br>ONLINE |

**BDBA858K** **Special Topics in Marketing; Business Communications**

(Perm req)

*Special topics specific to the Marketing doctoral field of study.*

Cross-listed with BUMK758G. Credit only granted for BUMK758G or BDBA858K.

| | | |
|---|---|---|
| 0502 | Melissa Lucas<br>**Meets October 21, 2024 - December 10, 2024**<br>MW 4:00pm - 5:50pm | Seats (Total: 0)<br><br>VMH 1518 |

**BDBA858M** **Special Topics in Marketing; Marketing Strategy**

(Perm req)

*Special topics specific to the Marketing doctoral field of study.*

Cross-listed with BUMK720. Credit only granted for BUMK720 or BDBA858M.

| | | |
|---|---|---|
| 0501 | Judy Frels | Seats (Total: 0) |
| | **Meets August 26, 2024 - December 9, 2024** | |
| | TuTh 5:00pm - 6:15pm | VMH 1520 |

**BDBA858N** **Special Topics in Marketing; Marketing in the Age of AI**

(Perm req)

*Special topics specific to the Marketing doctoral field of study.*

Cross-listed with BUSM758W. Credit only granted for BUSM758W or BDBA858N.

| | | |
|---|---|---|
| 0101 | Wendy Moe | Seats (Total: 42) |
| | **Meets October 21, 2024 - December 10, 2024** | |
| | MW 2:00pm - 3:50pm | VMH 1202 |

**BDBA858P** **Special Topics in Marketing; Innovation and Product Development**

(Perm req)

*Special topics specific to the Marketing doctoral field of study.*

Cross-listed with BUSM706. Credit only granted for BUSM706 or BDBA858P.

| | | |
|---|---|---|
| 0101 | Yogesh Joshi | Seats (Total: 42) |
| | **Meets October 21, 2024 - December 10, 2024** | |
| | TuTh 10:00am - 11:50am | VMH 2505 |

**BDBA858Q** **Special Topics in Marketing; Innovation & Product Development**

(Perm req)

*Special topics specific to the Marketing doctoral field of study.*

Cross-listed with BUSI737. Credit only granted for BUSI737 or BDBA858Q.

| | | | |
|---|---|---|---|
| BA01 | Mary Beth Furst<br>**Meets October 21, 2024 - December 10, 2024**<br>Th 6:25pm - 10:00pm | Seats (Total: 50)<br><br>BA 102 | |

# BIOE Bioengineering Fall 2024

**BIOE120** **Biology for Engineers**

(Perm req)

*Prerequisite: Must have completed or be concurrently enrolled in MATH140. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.*

*Introduction to the functions and interactions of biological systems from a quantitative perspective. Introduction to the modern experimental techniques and methods of data analysis. Roles for bioengineers in biology, and the role of biology in bioengineering will be elucidated.*

Students will be introduced to the functions and interactions of biological systems from a quantitative perspective. They will also be encourage d to solve problems through active inquiry, critical analysis,and creat ivity. Finally, roles for bioengineers in biology, and the role of biology in bioengineering will be elucidated.

| | | | |
|---|---|---|---|
| 0101 | Brian Blair<br>MWF 12:00pm - 12:50pm<br>Th 5:00pm - 5:50pm | Seats (Total: 50)<br>MCB 1207<br>MCB 1207 | <br><br>Discussion |
| 0201 | Catherine Kuo<br>TuTh 3:30pm - 4:45pm<br>Tu 2:00pm - 2:50pm | Seats (Total: 50)<br>EGR 1202<br>EGR 1108 | <br><br>Discussion |

**BIOE121** **Biology for Engineers Laboratory**

(Perm req)

*Prerequisite: Must have completed or be concurrently enrolled in BIOE120. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.*

*Bioengineering encompasses numerous sub-disciplines that apply engineering principles to analyze biological systems and that utilize engineering design strategies to solve biological and biomedical problems. This course is aimed at providing students with the opportunity to learn how biology and engineering can synergistically contribute to our understanding of such problems, and to gain hands-on experience in basic techniques relevant to Bioengineering.*

| | | | |
|---|---|---|---|
| 0101 | Brian Blair<br>M 4:00pm - 4:50pm<br>W 9:30am - 11:20am | Seats (Total: 20)<br>ANS 0408<br>AJC 1121 | <br><br>Lab |

| | | | |
|---|---|---|---|
| 0102 | Brian Blair<br>M 4:00pm - 4:50pm<br>W 3:00pm - 4:50pm | Seats (Total: 20)<br>ANS 0408<br>AJC 1121 | <br><br>Lab |
| 0103 | Brian Blair<br>M 4:00pm - 4:50pm<br>Th 9:30am - 11:20am | Seats (Total: 20)<br>ANS 0408<br>AJC 1121 | <br><br>Lab |
| 0104 | Brian Blair<br>M 4:00pm - 4:50pm<br>Th 1:00pm - 2:50pm | Seats (Total: 20)<br>ANS 0408<br>AJC 1121 | <br><br>Lab |

**BIOE221** **Academic and Career Planning**

(Perm req)

*Prerequisite: BIOE120 and BIOE121. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.*

*Provides practical tools to help Bioengineering majors think critically about their goals and career paths. Guides Bioengineering students through accessing useful resources both on- and off-campus.*

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|---|---|---|---|
| 0101 | Abby Shantzis, Rachel Chang<br>Tu 4:00pm - 4:50pm | Seats (Total: 45)<br>AJC 2121 | |

**BIOE232** **Bioengineering Thermodynamics**

(Perm req)

*Prerequisite: PHYS261 and PHYS260. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE232, ENES232, ENME232, or ENME320.*

*A quantitative introduction to thermodynamic analysis of bioengineering systems. Bioengineering encompasses a wide range of applications from nanoscale interactions (e.g. reactions between molecules), to cellular interactions (e.g. membrane electrical currents), to overall balances on organisms, all the way to large scale manufacturing. Each of these applications (and many others not mentioned) involve energy interactions which is the domain of thermodynamics. The basic laws of thermodynamics will be introduced and explained through a series of examples related to bioengineering systems.*

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|---|---|---|---|
| 0101 | Silvina Matysiak<br>TuTh 11:00am - 12:15pm<br>F 1:00pm - 1:50pm | Seats (Total: 30)<br>KEB 1110<br>AJC 2121 | <br><br>Discussion |

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|---|---|---|---|
| 0102 | Silvina Matysiak<br>TuTh 11:00am - 12:15pm<br>F 2:00pm - 2:50pm | Seats (Total: 30)<br>KEB 1110<br>AJC 2121 | <br><br>Discussion |

**BIOE241** **Biocomputational Methods**

(Perm req)

*Restriction: Permission of ENGR-Fischell Department of Bioengineering department.*

*Application of computer technology to biological and natural resource systems considering engineering aspects. Designed to help students in the use of computer technology for problem solving. The course will cover 4-5 software packages important for later use by the student.*

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|---|---|---|---|
| 0101 | Kyung Koh<br>MF 3:00pm - 3:50pm<br>W 3:00pm - 3:50pm | Seats (Total: 30)<br>CHE 2108<br>KEB 2107 | <br><br>Discussion |
| 0102 | Kyung Koh<br>MF 3:00pm - 3:50pm<br>W 5:00pm - 5:50pm | Seats (Total: 30)<br>CHE 2108<br>KEB 2111 | <br><br>Discussion |

**BIOE331** **Biofluids**

(Perm req)

*Prerequisite: MATH246, BIOE120, BIOE121, BIOE241, and BIOE371; and must have completed or be concurrently enrolled in BIOE232. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE331, ENCE305, ENFP300 or ENME331.*

*Principles and applications of fluid mechanics with a focus on bioengineering topics. Content includes conservation of mass, momentum, and energy, as well as the application of these fundamental relations to hydrostatics, control volume analysis, internal and external flow, and boundary layers. Applications to biological and bioengineering problems such as tissue engineering, bioprocessing, imaging, and drug delivery.*

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|---|---|---|---|
| 0101 | Deborah Goldberg<br>TuTh 12:30pm - 1:45pm<br>F 12:00pm - 12:50pm | Seats (Total: 65)<br>KEB 1110<br>KEB 1110 | <br><br>Discussion |

**BIOE340** **Modeling Physiological Systems and Lab**

(Perm req)

*Prerequisite: BSCI330, BIOE120, BIOE121, BIOE241, and MATH246. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE340 or (BSCI440 and BSCI441).*

*Topics covered will include cell and general physiology, membrane physiology, blood cells and clotting, circulation, metabolism, respiration, and the nervous system. A lab component will also be included.*

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|---|---|---|---|
| 0101 | John Fisher<br>TuTh 3:30pm - 4:45pm<br>Th 5:00pm - 6:30pm<br>*Lab will meet in either KEB2107 or KEB2111.* | Seats (Total: 30)<br>KEB 1110<br>KEB 2111 | <br><br>Lab |
| 0102 | John Fisher<br>TuTh 3:30pm - 4:45pm<br>Th 5:00pm - 6:30pm | Seats (Total: 30)<br>KEB 1110<br>KEB 2107 | <br><br>Lab |

**BIOE371** **Linear Systems and Ordinary Differential Equations for Bioengineering Applications**

(Perm req)

*Prerequisite: BIOE241; and must have completed or be concurrently enrolled in MATH246. Restriction: Permission on ENGR-Fischell Department of Bioengineering department.*

*This class utilizes fundamentals in linear systems, including eigenvalues and eigenvectors, as well as linear differential equations, to study various problems in bioengineering and biological systems, with a particular emphasis on feedback, stability, controllability, and control design.*

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|---|---|---|---|
| 0101 | Kyung Koh<br>TuTh 9:30am - 10:45am<br>F 9:00am - 9:50am | Seats (Total: 30)<br>ATL 1113<br>AJC 2119 | <br><br>Discussion |
| 0102 | Kyung Koh<br>TuTh 9:30am - 10:45am<br>F 12:00pm - 12:50pm | Seats (Total: 30)<br>ATL 1113<br>AJC 2119 | <br><br>Discussion |

**BIOE372** **Biostatistics for Experimental Design and Data Analysis**

(Perm req)

*Prerequisite: BIOE120, BIOE121, and BIOE241. Recommended: MATH246. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE372 or STAT464.*

*This course will instruct students in the fundamentals of probability and statistics through examples in biological phenomenon, the design of bioengineering experiments, and clinical data analysis. Fundamentals covered in the course include probability distributions, hypothesis testing, power analysis, regression analysis, and correlation analysis.*

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|---|---|---|---|
| 0101 | Beatrice Kondo<br>MWF 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 30)<br>MCB 1207<br>AJC 2119 | <br><br>Discussion |

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|---|---|---|---|---|
| 0102 | Beatrice Kondo | Seats (Total: 30) | | |
| | MWF 11:00am - 11:50am<br>F 2:00pm - 2:50pm | MCB 1207<br>AJC 2119 | Discussion | |

**BIOE389M** **Special Projects in Bioengineering; Research Skills and Professional Development for MARC Scholars**

(Perm req)

*Exploring a variety of projects in Bioengineering.*

Restriction: Must be a student in the Mazimizing Acces to Research Careers (MARC) Program. The course will provide instruction and opportunities for development in research skills and scientific communication, along with individualized preparation towards graduate school and a career in biomedical research.

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|---|---|---|
| 0101 | Kimberly Stroka | Seats (Total: 10) |
| | M 12:00pm - 12:50pm | EGR 3111 |

**BIOE399** **Independent Study in Bioengineering**

(Perm req)

*Independent study.*

Prerequisite: permission of department.

**Contact department for information to register for this course.**

**BIOE399H** **Independent Study in Bioengineering**

(Perm req)

*Independent study.*

**Contact department for information to register for this course.**

**BIOE411** **Tissue Engineering**

(Perm req)

*Prerequisite: Must have completed at least one biology course; and (BIOE120, BIOE121, BIOE241, MATH246, and MATH241). Or permission of ENGR-Fischell Department of Bioengineering department. Recommended: BSCI330 and BIOE340. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE411 or CHBE487.*

*A review of the fundamental principles involved in the design of engineered tissues and organs. Both biological and engineering fundamentals will be considered.*

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|---|---|---|
| 0101 | Beatrice Kondo | Seats (Total: 30) |
| | MWF 1:00pm - 1:50pm | AJC 2134 |

**BIOE413** **Stem Cell Engineering**

(Perm req)

*Prerequisite: BIOE241, BIOE120, BIOE121, and MATH246; and must have completed or be concurrently enrolled in BIOE340. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Jointly offered with: BIOE613. Credit only granted for: BIOE413, BIOE689J, or BIOE613.*

*Provides an introduction to the role of stem cells in tissue growth and development, the engineering of stem cells and their environments for regenerative medicine applications, and disease modeling. Topics covered will include basic stem cell biology and mechanobiology; experimental methods for growing, differentiating, studying, and characterizing stem cells; stem cell integration into engineered microenvironments (e.g., tissue scaffolds and biomaterials, organ-on-chip devices, 3D-printed biomaterials); stem cell engineering in clinical applications and disease models; and ethical, commercialization, and regulatory issues in the field of stem cell engineering.*

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|---|---|---|
| 0101 | Kimberly Stroka | Seats (Total: 40) |
| | TuTh 2:00pm - 3:15pm | AJC 2132 |

**BIOE415** **Engineering Design for Global Health**

(Perm req)

*Prerequisite: BIOE120, BIOE121, and MATH246. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Jointly offered with: BIOE615. Credit only granted for: BIOE415, BIOE615, BIOE489Y, or BIOE689I. Formerly: BIOE489Y.*

*Many medical technologies are not available in low and middle-income countries due to the cost, infrastructure, and medical expertise required to implement and sustain them. There is tremendous potential to increase access to health care through developing more affordable biomedical technologies, but effective design requires deep understanding of the problem. The goal of this course is to introduce the human-centered design framework and how it can be applied to design new biomedical technologies to solve challenges in global health.*

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|---|---|---|
| 0101 | Jenna Mueller | Seats (Total: 22) |
| | TuTh 12:30pm - 1:45pm | AJC 2134 |

**BIOE420** **Bioimaging**

(Perm req)

*Prerequisite: MATH246, BIOE120, BIOE121, and BIOE241. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.*

*Covers the fundamental principles of major biomedical imaging techniques, including X-ray Imaging, Computer Tomography (CT), Magnetic Resonance Imaging (MRI), Ultrasound Imaging, Nuclear Medicine Imaging (SPECT/PET/CT), Optical Coherent Tomography (OCT), and Optical and Hyperspectral Imaging. The course will explore the underlying concepts of imaging system architectures, image reconstruction algorithms, and software implementation. Additionally, it will discuss the clinical interpretation of biomedical images and newer ways to use images for bio-related applications for diagnosis and analysis.*

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|---|---|---|
| 0101 | Yang Tao<br>TuTh 9:30am - 10:45am | Seats (Total: 40)<br>EGR 1104 |

**BIOE437** **Computer-Aided Design in Bioengineering**

(Perm req)

*Prerequisite: BIOE120, BIOE121, BIOE241, and MATH246; or permission of ENGR-Fischell Department of Bioengineering department. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE437, BIOE689V, ENME414, ENME272, or ENAE488D. Formerly: BIOE689V.*

*Introduction to Computer-Aided Design (CAD). Lecture topics will summarize design methodology, review best-practices in hardware development, and discuss engineering applications. The course will culminate in a student-selected project leveraging CAD.*

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|---|---|---|
| 0101 | Frank Modica<br>W 6:00pm - 9:00pm | Seats (Total: 22)<br>KEB 2111 |

**BIOE442** **Python: Introduction to Programming and Data Analysis**

(Perm req)

*Prerequisite: BIOE241, BIOE120, BIOE121, and MATH241; or permission of ENGR-Fischell Department of Bioengineering department. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE489A or BIOE442. Formerly: BIOE489A.*

*Provides an introduction to structured programming, computational methods, and data analysis techniques with the goal of building a foundation allowing students to confidently address problems in research and industry. Fundamentals of programming, algorithms, and simulation are covered from a general computer science perspective, while the applied data analysis and visualization portion makes use of the Python SciPy stack.*

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|---|---|---|
| 0101 | Jonathan Resop<br>MWF 4:00pm - 4:50pm | Seats (Total: 30)<br>KEB 2107 |

**BIOE453** **Biomaterials**

(Perm req)

*Prerequisite: CHEM231, MATH246, CHEM232, BIOE120, BIOE121, and BIOE241. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE453, CHBE457, or ENMA425.*

*Examination of the structure and function of natural biomaterials, and cell-extracellular matrix interactions. Study physical properties of synthetic biomaterials for biomedical applications. Understanding molecular level interactions between biomolecules and biomaterials to design novel biomaterials with desirable characteristics. Application of biomaterials as implants, drug delivery systems, biosensors, engineered materials such as artificial skin and bone growth scaffolds will be covered.*

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|---|---|---|---|
| 0101 | Erika Moore | Seats (Total: 30) | |
| | TuTh 2:00pm - 3:15pm<br>M 12:00pm - 12:50pm | CHE 2136<br>AJC 2119 | Discussion |

**BIOE457** **Biomedical Electronics & Instrumentation**

(Perm req)

*Prerequisite: BIOE120, BIOE121, BIOE241, PHYS261, MATH246, and PHYS260. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.*

*Students learn fundamental concepts of electronics, assembly of electronic components into functional circuits, and integration of functional electronic devices and circuits into a system. In the lab component, students will learn to assemble and evaluate circuits and systems.*

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|---|---|---|---|
| 0101 | Ian White | Seats (Total: 45) | |
| | MWF 10:00am - 10:50am<br>W 12:00pm - 1:50pm | IRB 1116<br>AJC 1120 | Lab |
| 0102 | Ian White | Seats (Total: 45) | |
| | MWF 10:00am - 10:50am<br>W 3:30pm - 5:20pm | IRB 1116<br>AJC 1120 | Lab |

**BIOE461** **Synthetic Biology and Biological Engineering**

(Perm req)

*Prerequisite: BIOE120, BIOE121, BIOE241, and MATH246; or permission of ENGR-Fischell Department of Bioengineering department. Recommended: Completion of BSCI222 and/or BSCI330 recommended. Restriction: Permission of ENGR-Fischell Department of Bioengineering department.*

*Students are introduce to the scientific foundation and concepts of synthetic biology and biological engineering. Current examples that apply synthetic biology to fundamental and practical challenges will be emphasized. The course will also address the societal issues of synthetic biology, and briefly examine interests to regulate research in this area.*

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|---|---|---|
| 0101 | Sara Molinari | Seats (Total: 30) |
| | MWF 1:00pm - 1:50pm | AJC 2119 |

**BIOE462** **Therapeutic Development and Delivery**

(Perm req)

*Prerequisite: BIOE120, BIOE121, BIOE241, MATH246, and BSCI330; and must have completed or be concurrently enrolled in BIOE340. Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Credit only granted for: BIOE489P or BIOE462. Formerly: BIOE489P.*

*The ultimate purpose of the pharmaceutical and biotechnology industries is the development and delivery of therapeutics. This course covers fundamentals of engineering and the pharmaceutical sciences related to therapeutics, including basic pharmaceutics/drug delivery, pharmacokinetics, biomolecular kinetics, and regulatory issues. Specific focus is placed on biotherapeutics, including antibodies and protein engineering,RNA and DNA therapeutics (gene therapy and RNAi), extracellular vesicle biotechnology (exosomes), and cell-based therapies, including stem cells. The use of delivery technologies to enable therapeutics (e.g. nanomedicine) will also be discussed.*

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| 0101 | Steven Jay | Seats (Total: 40) |
| | TuTh 11:00am - 12:15pm | ESJ 2212 |

**BIOE474** **Biopharmaceutical Process Development and Manufacturing**

(Perm req)

*Prerequisite: BIOE120. Restriction: Must have earned a minimum of 60 credits, Permission of ENGR-Fischell Department of Bioengineering department. Jointly offered with: BIOE674. Credit only granted for: BIOE474, BIOE674, CHBE474, BIOE489T, or BIOE689E. Formerly: BIOE489T.*

*Covers the fundamental steps involved in process development and manufacturing of biopharmaceuticals. An overview of different classes of biopharmaceuticals as well as manufacturing requirements for clinical development and regulatory approval will be provided. In depth coverage of manufacturing steps including cell culture, purification and formulation as well as drug product manufacturing, analysis and stability will be covered. Scientific literature will be used to highlight current challenges and novel solutions in each step of the manufacturing process. Scale up considerations, GMP requirements and process economics will also be introduced.*

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|---|---|---|
| 0101 | Deborah Goldberg | Seats (Total: 22) |
| | TuTh 9:30am - 10:45am | AJC 2119 |

**BIOE485** **Capstone Design I: Entrepreneurship, Regulatory Issues, and Ethics**

(Perm req)

*Prerequisite: 21 credits in BIOE courses; and must have completed or be concurrently enrolled in BIOE457. Restriction: Permission of ENGR-Fischell Department of Bioengineering department; and senior standing; and must be in Engineering: Bioengineering program.*

*This is the first part of a two-semester senior capstone design course which covers principles involved in engineering design, design approaches, economics of design, ethics in engineering, and patent regulations. It also helps students learn team work and write design project proposals under the mentorship of a faculty advisor.*

*A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE): http://ter.ps/iamFEARLESS  Click here for more information on the Fearless Ideas Courses.*

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|---|---|---|
| 0101 | Yang Tao<br>MW 2:00pm - 3:15pm | Seats (Total: 130)<br>EGR 1202 |

**BIOE488B** **Research Methods in Bioengineering; Biotechnology**

(Perm req)

*Exploring a variety of research methods in the field of Bioengineering.*

Prerequisites: BIOE120, BIOE121, and BSCI330. Restriction: permission of department. This course prepares students for a broad range of opportunities by delivering a practical, hands-on experience appropriate for a student interested in biotechnology. Students will gain exposure to: recombinant DNA, cell culture, transfection/transformation, and molecular biology assayssuch as: PCR/sequencing, gels/blots, reporter gene expression. This course provides students with a working research laboratory environment experience.

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| 0101 | Beatrice Kondo<br>M 3:30pm - 5:20pm<br>F 2:15pm - 3:30pm | Seats (Total: 8)<br>AJC 1121<br>AJC 1121 |

**BIOE489H** **Special Topics in Bioengineering; Bioengineering Honors Seminar**

(Perm req)

*Exploring a variety of topics with Bioengineering.*

Restricted to students in the BIOE Honors Proram.

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|---|---|---|
| 0101 | Gregg Duncan<br>M 3:30pm - 4:30pm | Seats (Total: 30)<br>MTH 0403 |

**BIOE605** **BIOE Graduate Studies I**

(Perm req)

*Restriction: Must be in ENGR: PhD Only-Bioengineering (Doctoral) program.*

*Introduction to the bioengineering graduate program.  Students gain exposure to departmental research through lab rotation and to current research in the field through seminar. Students will also gain preparation and guidance on other first-year academic requirements.*

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|---|---|---|---|
| 0101 | Steven Jay | Seats (Total: 30) | |
| | F 10:00am - 10:50am | AJC 2132 | |
| | F 9:00am - 9:50am | AJC 2132 | Discussion |

**BIOE608** **Bioengineering Seminar Series**

(Perm req)

*A variety of topics related to Bioengineering will be presented in weekly seminars.*

For BIOE majors only.

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|---|---|---|
| 0101 | Jenna Mueller, Erika Moore | Seats (Total: 40) |
| | F 9:00am - 10:50am | AJC 2121 |

**BIOE610** **Mathematical Methods in Bioengineering**

(Perm req)

*Restriction: Permission of ENGR-Fischell Department of Bioengineering.*

*From diffusion problems to light-matter interactions, students will learn basic skills needed to create mathematical models in bioengineering. Students will first be exposed to simplified problems in analytical form, and then more complex problems with the help of computer software programs.*

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|---|---|---|
| 0101 | Jose Aranda-Espinoza | Seats (Total: 30) |
| | TuTh 8:00am - 9:15am | AJC 2132 |

**BIOE612** **Physiological Evaluation of Bioengineering Designs**

(Perm req)

*Restriction: Permission of ENGR-Fischell Department of Bioengineering department.*

*Bioengineering designs of biomaterials, biomedical devices, imaging and drug delivery agents, tissue engineering, prosthesis (among others), offer the opportunity to improve health care. This course is aimed at providing knowledge to lead bioengineering designs on the basis of biocompatibility and to provide tools to assess their patho-physiological impact in biological systems.*

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|---|---|---|
| 0101 | Huang Chiao Huang | Seats (Total: 30) |
| | TuTh 11:00am - 12:15pm | AJC 2134 |

**BIOE651** **Applied Mathematics in Bioengineering**

(Perm req)

*Restriction: Restricted to Master's of Engineering - Bioengineering students; or permission of Fischell Department of Bioengineering. Credit only granted for: BIOE651 or BIOE658M. Formerly: BIOE658M.*

*Students will use and learn mathematical concepts that are directly relevant to their career as a bioengineer. They will apply these concepts to various bioengineering applications while also learning industry-relevant analytical software.*

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|---|---|---|
| 0101 | Austin Tapp<br>MW 5:30pm - 6:45pm | Seats (Total: 15)<br>ONLINE |
| BI01 | Austin Tapp<br>Class time/details on ELMs | Seats (Total: 15)<br>ONLINE |

**BIOE658J** **Special Topics in Bioengineering (M.Eng.); Introduction to Programming and Data Analysis using Python**

(Perm req)

*Special topics in Bioengineering.*

Restriction: For Master of Engineering students only or with permission of department. Aims to provide an introduction to structured programming, computational methods, and data analysis techniques, with the goal of equipping students with a foundation that allows them to confidently tackle problems in research and industry. The course begins with basic programming concepts such as data types, operators, logical flow control, debugging, and computational complexity using Python. It then delves into more advanced topics such as dynamic programming, algorithms, and object-oriented programming. Students will also be introduced to effective tools and libraries for data analysis and visualization. Towards the end of the course, there will be an overview of machine learning, artificial intelligence, neural networks, and convolution neural networks, along with some useful libraries and modules.

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|---|---|---|
| 0101 | Bahaa Ghammraoui<br>TuTh 5:00pm - 6:15pm | Seats (Total: 15)<br>AJC 2132 |
| BI01 | Bahaa Ghammraoui<br>Class time/details on ELMs | Seats (Total: 15)<br>ONLINE |

**BIOE658R** **Special Topics in Bioengineering (M.Eng.); Regulatory Affairs in Medical Product Development**

(Perm req)

*Special topics in Bioengineering.*

For Master of Engineering students only or with permission of department. Credit will only be granted for ANTH627 or BIOE658R. An introductory course on regulations associated with the development and production of medical devices and pharmaceuticals.

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|---|---|---|
| 0101 | Valerie Merkle<br>TuTh 5:00pm - 6:15pm | Seats (Total: 15)<br>Location: TBA |

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|---|---|---|
| BI01 | Valerie Merkle | Seats (Total: 15) |
| | Class time/details on ELMs | ONLINE |

**BIOE674** **Biopharmaceutical Process Development and Manufacturing**

(Perm req)

*Restriction: Permission of ENGR-Fischell Department of Bioengineering department. Jointly offered with: BIOE474. Credit only granted for: BIOE674, BIOE474, CHBE474, BIOE489T, or BIOE689E. Formerly: BIOE689E.*

*Covers the fundamental steps involved in process development and manufacturing of biopharmaceuticals. An overview of different classes of biopharmaceuticals as well as manufacturing requirements for clinical development and regulatory approval will be provided. In depth coverage of manufacturing steps including cell culture, purification and formulation as well as drug product manufacturing, analysis and stability will be covered. Scientific literature will be used to highlight current challenges and novel solutions in each step of the manufacturing process. Scale up considerations, GMP requirements and process economics will also be introduced.*

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|---|---|---|
| 0101 | Deborah Goldberg | Seats (Total: 10) |
| | TuTh 9:30am - 10:45am | AJC 2119 |

**BIOE689** **Special Topics in Bioengineering**

(Perm req)

*Research Oriented Individual Instruction course.*

**Contact department for information to register for this course.**

**BIOE689F** **Special Topics in Bioengineering; Spatial Biology: Bioinformatics, Omics, and Technology**

(Perm req)

*Research Oriented Individual Instruction course.*

Restrictions: Permission of the Fischell Department of Bioengineering Introduction to modern spatial biology methods, beginning with clinical motivations and pathology, moving to the materials, imaging, and chemistries that enable spatial methods, and ending with spatial omics analysis and bioinformatics. This course will cover clinical and engineering background and theory, and practical spatial omics programming and analysis.

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|---|---|---|
| 0101 | Alexander Xu | Seats (Total: 15) |
| | MW 11:00am - 12:15pm | EGR 1104 |

**BIOE689G** **Special Topics in Bioengineering; Advanced Immunoengineering**

(Perm req)

*Research Oriented Individual Instruction course.*

Immunoengineering harnesses immunological functions to design treatments for various diseases including cancer. We will explore how engineering technologies have been used to study and modulate immune functions, techniques used in immunology and immune engineering, and new developments in the field. The course will largely focus on current literature in immune engineering topics.

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|---|---|---|
| 0101 | Katharina Maisel | Seats (Total: 15) |
| | Th 3:30pm - 6:00pm | AJC 2119 |

**BIOE689J** **Special Topics in Bioengineering; Therapeutic Development and Delivery**

(Perm req)

*Research Oriented Individual Instruction course.*

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|---|---|---|
| 0101 | Steven Jay | Seats (Total: 8) |
| | TuTh 11:00am - 12:15pm | ESJ 2212 |

**BIOE799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**BIOE898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**BIOE899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# BIOI Bioinformatics and Computational Biology Fall 2024

**BIOI601** **Probability and Statistics**

*Prerequisite: Undergraduate courses in calculus and basic linear algebra. Cross-listed with: DATA601, MSML601. Credit only granted for: BIOI601, DATA601 or MSML601.*

*Provides a solid understanding of the fundamental concepts of probability theory and statistics. The course covers the basic probabilistic concepts such as probability space, random variables and vectors, expectation, covariance, correlation, probability distribution functions, etc. Important classes of discrete and continuous random variables, their inter-relation, and relevance to applications are discussed. Conditional probabilities, the Bayes formula, and properties of jointly distributed random variables are covered. Limit theorems, which investigate the behavior of a sum of a large number of random variables, are discussed. The main concepts random processes are then introduced. The latter part of the course concerns the basic problems of mathematical statistics, in particular, point and interval estimation and hypothesis testing.*

| | | |
|---|---|---|
| PCS1 | Leonid Koralov<br>W 6:00pm - 8:45pm | Seats (Total: 60)<br>CSI 3117 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS2 | Sandra Cerrai<br>W 6:00pm - 8:45pm | Seats (Total: 60)<br>PHY 1410 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS3 | Jonathan Fernandes<br>W 6:00pm - 8:45pm | Seats (Total: 60)<br>ESJ 2204 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS4 | Christopher Cameron<br>W 6:00pm - 8:45pm | Seats (Total: 60)<br>ESJ 2208 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS5 | Stefan Doboszczak<br>W 6:00pm - 8:45pm | Seats (Total: 60)<br>IRB 0318 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS6 | Roohollah Ebrahimian<br>F 4:00pm - 6:45pm | Seats (Total: 60)<br>PHY 1410 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS7 | Anna Szczekutowicz<br>F 4:00pm - 6:45pm | Seats (Total: 60)<br>PHY 1201 |

**BIOI602** **Principles of Data Science**

*Restriction: Must be in one of the following programs: (Data Science Post-Baccalaureate Certificate, Master of Professional Studies in Data Science and Analytics, or Master of Professional Studies in Machine Learning). Cross-listed with: DATA602, MSML602. Credit only granted for: BIOI602, DATA602, MSML602 or CMSC641. Formerly: CMSC641.*

*An introduction to the data science pipeline, i.e., the end-to-end process of going from unstructured, messy data to knowledge and actionable insights. Provides a broad overview of what data science means and systems and tools commonly used for data science, and illustrates the principles of data science through several case studies.*

| | | |
|---|---|---|
| PCS1 | Mohammad Nayeem Teli<br>M 6:00pm - 8:45pm<br>*Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | Seats (Total: 70)<br>ESJ 2204 |
| PCS2 | Fardina Alam<br>Tu 5:00pm - 7:45pm<br>*Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | Seats (Total: 70)<br>IRB 0318 |
| PCS3 | Maksym Morawski<br>Tu 6:00pm - 8:45pm<br>*Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | Seats (Total: 60)<br>IRB 1116 |
| PCS4 | Charles Forgy<br>Th 6:00pm - 8:45pm<br>*Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | Seats (Total: 60)<br>PHY 1201 |
| PCS5 | Heng Huang<br>Tu 6:00pm - 8:45pm<br>*Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | Seats (Total: 60)<br>PHY 1201 |
| PCS6 | Charles Forgy<br>Tu 6:00pm - 8:45pm | Seats (Total: 60)<br>CSI 2117 |
| PCS7 | Tammy Perrin<br>M 6:00pm - 8:45pm | Seats (Total: 60)<br>TWS 0310 |

**BIOI603** **Principles of Machine Learning**

*Restriction: Must be in one of the following programs: (Data Science Post-Baccalaureate Certificate, Master of Professional Studies in Data Science and Analytics, or Master of Professional Studies in Machine Learning). Cross-listed with: DATA603, MSML603, MSQC603. Credit only granted for: BIOI603, DATA603, MSML603, MSQC603 or CMSC643. Formerly: CMSC643.*

*A broad introduction to machine learning and statistical pattern recognition. Topics include: Supervised learning: Bayes decision theory, discriminant functions, maximum likelihood estimation, nearest neighbor rule, linear discriminant analysis, support vector machines, neural networks, deep learning networks. Unsupervised learning: clustering, dimensionality reduction, PCA, auto-encoders. The course will also discuss recent applications of machine learning, such as computer vision, data mining, autonomous navigation, and speech recognition.*

The lecture may be conducted online some weeks and in person other weeks. Please see ELMS for Class meeting details.

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|---|---|---|
| PCS1 | Babak Azimi-Sadjadi<br>Th 6:00pm - 8:45pm | Seats (Total: 70)<br>CSI 3117 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS2 | Alejandra Mercado<br>F 9:00am - 11:45am | Seats (Total: 70)<br>PLS 1130 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS3 | Kemal Davaslioglu<br>M 6:00pm - 8:45pm | Seats (Total: 65)<br>MCB 1207 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS4 | Babak Azimi-Sadjadi<br>M 6:00pm - 8:45pm | Seats (Total: 65)<br>CSI 3117 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS5 | Richard La<br>F 10:00am - 12:45pm | Seats (Total: 65)<br>BPS 1250 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS6 | Richard La<br>M 6:00pm - 8:45pm | Seats (Total: 65)<br>IRB 1116 |

**BIOI604 Principles of Molecular Biology, Genetics and Genomics**

*Provides a review of basic concepts in molecular biology, genetics, and genomics. Topics include the following: prokaryotic and eukaryotic genome structure and organization (including 3D architecture); Mendelian genetics, recombination, linkage and linkage disequilibrium, genome-wide association studies; review of genome projects, comparative genomics, genome variation, single nucleotide polymorphisms and genotyping; gene expression and the transcriptome, transcriptional regulation, gene regulatory networks; translation and translational regulation; proteomics approaches; integrative genomics.*

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|---|---|---|
| PCS1 | Volker Briken, Najib El-Sayed | Seats (Total: 25) |
| | M 6:00pm - 8:45pm | BRB 3101 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |

**BIOI611 Analysis of Gene Expression Data**

*Prerequisite: BIOI604.*

*This course focuses on the analysis of transcriptomics data, and specifically on the analysis of gene and transcript-level expression. Material covered includes transcript and gene expression estimation from RNA-seq data (short and long-read), basic experimental design and statistical methods for differential expression analysis, discovery of novel transcripts via reference-guided and de novo assembly, and the analysis of single-cell gene expression data (e.g., single-cell expression quantification, dimensionality reduction, clustering, pseudotime analysis). Prerequisite: BIOI 604. Core.*

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|---|---|---|
| PCS1 | Shaojun Xie | Seats (Total: 10) |
| | M 6:00pm - 8:45pm | BPS 1232 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |

**BIOI621 Genome Assembly and Annotation**

*Prerequisite: BIOI604.*

*An introduction to the algorithms and tools used to reconstruct genome sequences from shotgun sequencing data and to annotate the resulting sequence. Course includes theoretical underpinnings of core assembly paradigms and the practical use of paradigms; approaches for scaffolding the reconstructed sequences along chromosomes using mate-pair and other types of information; and validating sequence assemblers output. The course will discuss approaches for interpreting sequence annotations in the context of a reconstructed genome, focusing on genome browsers and other visualization and analytical tools and approaches for interpreting gene synteny information. A particular focus will be on the impact of repetitive sequences on the quality of genome assemblies and ability to effectively analyze gene synteny and to conduct comparative genomic analyses.*

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|---|---|---|
| PCS1 | Nakyung Lee | Seats (Total: 10) |
| | Tu 6:00pm - 8:45pm | EGR 1102 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |

# BIOL Biology Fall 2024

**BIOL608K** **Biology Seminar; Biological Sciences Teaching and Learning in Higher Education**

(Perm req)

Cross-listed with CBMG699K, CHEM608K, and ENTM699K. Credit will be grant edfor only one of the following: BIOL608K, CBMG699K, CHEM608K, or ENTM699K.

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|---|---|---|
| 0101 | Gili Ad-Marbach | Seats (Total: 12) |
| | W 11:00am - 12:40pm | BPS 1208 |

**BIOL609** **Special Problems in Biology**

*One seminar per week for each subject selected: A-Cell Biology; B-Developmental Biology; C-Estuarine and Marine Biology; D-Genetics; E-Parasitology; F-Physiology; G-Systematics and Evolutionary Biology; I-Behavior; J-General; K-Endocrinology; L-Ecology.*

**Contact department for information to register for this course.**

**BIOL667** **Mathematical Biology**

*Credit only granted for: BIOL667 or ZOOL625. Formerly: ZOOL625.*

*Mathematical methods of analyzing deterministic and stochastic biological processes from a variety of areas (including population and evolutionary biology, neurobiology, physiology, and morphogenesis). Qualitative aspects of dynamical systems which are usually given as difference or differential equations. The computer program Mathematica will be used to obtain the numerical solutions of these equations.*

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|---|---|---|---|
| 0101 | Jonathan Simon | Seats (Total: 5) | |
| | TuTh 9:30am - 10:45am | CCC 1111 | |
| | M 1:00pm - 3:50pm | CCC 1111 | Lab |

**BIOL704** **Cell Biology from a Biophysical Perspective**

*Recommended: BSCI330, PHYS121, and PHYS122. Cross-listed with: BIPH704. Jointly offered with: BSCI404. Credit only granted for: BSCI404, BIOL704, BIOL708O, or BIPH704. Formerly: BIOL708O.*

*An approach to cell biology by focusing on mechanisms and unifying paradigms. It will not assume a great deal of factual biological knowledge, but will expect a background that prepares students to think quantitatively and mechanistically.*

| | | |
|---|---|---|
| 0101 | Sergei Sukharev | Seats (Total: 9) |
| | TuTh 3:30pm - 4:45pm | PLS 1113 |

**BIOL708B** **Advanced Topics in Biology; Animal Behavior**

*Lectures, experimental courses and other special instructions in various zoological subjects.*

Credit only granted for BSCI360 and BIOL708B. Study of animal behavior with emphasis on its evolution and function. Topics include genetic basis of behavior, communication, aggression, foraging, cooperation, mate selection, and relevance for conservation.

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|---|---|---|---|
| 0102 | Gerald Wilkinson<br>MW 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 2)<br>ESJ 0215<br>PLS 1162 | <br><br>Discussion |
| 0103 | Gerald Wilkinson<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 2)<br>ESJ 0215<br>PLS 1162 | <br><br>Discussion |

**BIOL708Q** **Advanced Topics in Biology; Neurobiology of Chemosensory Systems**

*Lectures, experimental courses and other special instructions in various zoological subjects.*

Cross-listed with NACS728J. Credit only granted for BSCI339D, BSCI357, BIOL708Q, or NACS728J. Chemosensation is essential for all forms of life, orchestrating several physiological processes, such as feeding, sexual behaviors, and body homeostasis. This course will review the function of chemosensory systems, including olfaction, gustatory and central chemoreception, among others. Through lectures and discussion of papers, we will examine the cell biology, systems neuroscience, and evolutionary aspects in these chemosensory systems.

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|---|---|---|---|
| 0101 | Ricardo Araneda<br>MW 2:00pm - 3:15pm | Seats (Total: 7)<br>BPS 1208 | |

**BIOL709W** **Selected Advanced Topics in Biology; Molecular Neuroethology**

*Lectures, experimental courses and other special instructions in various biological subjects.*

Credit only granted for BSCI339W, BSCI381, or BIOL709W. The brain generates a tremendous variety of behaviors, but how it achieves these feats remains largely unknown. Genetics and molecular tools yield fundamental insights into how the brain senses its environment and determines an appropriate course of action. This course will describe modern genetic manipulations (eg, CRISPR editing) and neuronal interventions (e. g., optogenetics), and discuss the quantification of behavioral outputs. Course consists of lectures plus readings and group discussionsof primary scientific literature.

| | | | |
|---|---|---|---|
| 0101 | Scott Juntti<br>TuTh 3:30pm - 4:45pm | Seats (Total: 10)<br>BPS 0283 | |

**BIOL799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**BIOL898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**BIOL899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# BIOM Biometrics Fall 2024

**BIOM301** **Introduction to Biometrics**

*Prerequisite: MATH113 or MATH115.*

*Descriptive statistics, introduction to probability, sampling, confidence interval estimation, hypothesis testing, simple regression and correlation. Emphasis on simple applications of statistical techniques and interpretation of statistical results.*

| | | | |
|---|---|---|---|
| 0101 | Christine Hakenkamp<br>TuTh 2:00pm - 2:50pm<br>M 1:00pm - 1:50pm | Seats (Total: 28)<br>HJP 0226<br>ANS 0473 | Discussion |
| 0102 | Christine Hakenkamp<br>TuTh 2:00pm - 2:50pm<br>M 2:00pm - 2:50pm | Seats (Total: 28)<br>HJP 0226<br>ANS 0473 | Discussion |
| 0103 | Christine Hakenkamp<br>TuTh 2:00pm - 2:50pm<br>M 3:00pm - 3:50pm | Seats (Total: 28)<br>HJP 0226<br>ANS 0473 | Discussion |
| 0104 | Christine Hakenkamp<br>TuTh 2:00pm - 2:50pm<br>Tu 9:30am - 10:20am | Seats (Total: 28)<br>HJP 0226<br>ANS 0473 | Discussion |
| 0105 | Christine Hakenkamp<br>TuTh 2:00pm - 2:50pm<br>Tu 11:00am - 11:50am | Seats (Total: 28)<br>HJP 0226<br>ANS 0473 | Discussion |
| 0106 | Christine Hakenkamp<br>TuTh 2:00pm - 2:50pm<br>Tu 12:30pm - 1:20pm | Seats (Total: 28)<br>HJP 0226<br>ANS 0473 | Discussion |
| 0107 | Christine Hakenkamp<br>TuTh 2:00pm - 2:50pm<br>M 10:00am - 10:50am | Seats (Total: 28)<br>HJP 0226<br>ANS 0473 | Discussion |

**BIOM386** **Experiential Learning**

(Perm req)

*Restriction: Junior standing or higher; and learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor.*

**Contact department for information to register for this course.**

**BIOM405** **Computer Applications in Biometrics**

(Perm req)

*An introduction to computer applications for data analysis. This is equivalent to the computer lab of 601 and is required for students that have taken BIOM301 and BIOM402 and wish to go directly into BIOM602.*

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|---|---|---|---|
| 0101 | Li Ma<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE | |

**BIOM601** **Biostatistics I**

*Prerequisite: BIOM301 or STAT464; or students who have taken courses with comparable content may contact the department. Credit only granted for: BIOM401 or BIOM601.*

*Estimation and hypothesis testing, t tests, one and two way analysis of variance, regression, analysis of frequency data. Lecture will emphasize uses and limitations of these methods in biology, while the laboratory will emphasize the use of statistical analysis software for the analysis of biological data.*

| | | | |
|---|---|---|---|
| 0101 | Li Ma<br>TuTh 12:30pm - 1:45pm<br>Tu 2:00pm - 4:00pm | Seats (Total: 30)<br>ANS 0408<br>ANS 0473 | <br><br>Lab |
| 0102 | Li Ma<br>TuTh 12:30pm - 1:45pm<br>W 9:00am - 11:00am | Seats (Total: 30)<br>ANS 0408<br>ANS 0473 | <br><br>Lab |
| 0104 | Li Ma<br>TuTh 12:30pm - 1:45pm<br>Th 2:00pm - 4:00pm | Seats (Total: 25)<br>ANS 0408<br>ONLINE | <br><br>Lab |

**BIOM688A** **Topics in Biometrics; Consulting Experience in Biometrics**

*Advanced topics of current interest in various areas of biometrics. Credit assigned will depend on lecture and/or laboratory time scheduled and organization of the course.*

**Contact department for information to register for this course.**

**BIOM688E** **Topics in Biometrics; Statistical Genomics**

*Advanced topics of current interest in various areas of biometrics. Credit assigned will depend on lecture and/or laboratory time scheduled and organization of the course.*

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|---|---|---|
| 0101 | Jiuzhou Song, Li Ma, Mohamed Salem | Seats (Total: 22) |
| | WF 2:00pm - 3:15pm | Location: TBA |

**BIOM698** **Special Problems in Biometrics**

*Individual study of a particular topic in biostatistics or biomathematics.*

**Contact department for information to register for this course.**

# BIPH Biophysics Fall 2024

**BIPH698L** **Biophysics Seminar; Biophysics**

| | | |
|---|---|---|
| 0101 | Arpita Upadhyaya | Seats (Total: 20) |
| | M 4:00pm - 5:30pm | IPT 1116 |

**BIPH699** **Research in Biophysics**

*Supervised research in biophysics laboratories. Rotations through several laboratories prior to a choice of laboratory for a research assistantship.*

**Contact department for information to register for this course.**

**BIPH704** **Cell Biology from a Biophysical Perspective**

*Recommended: BSCI330, PHYS121, and PHYS122. Cross-listed with: BIOL704. Jointly offered with: BSCI404. Credit only granted for: BSCI404, BIOL704, BIOL708O, or BIPH704. Formerly: BIOL708O.*

*An approach to cell biology by focusing on mechanisms and unifying paradigms. It will not assume a great deal of factual biological knowledge, but will expect a background that prepares students to think quantitatively and mechanistically.*

| | | |
|---|---|---|
| 0101 | Sergei Sukharev | Seats (Total: 9) |
| | TuTh 3:30pm - 4:45pm | PLS 1113 |

**BIPH799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**BIPH898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**BIPH899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# BISI Biological Sciences Fall 2024

**BISI610** **Introduction to Behavior, Evolution, Ecology, & Systematics**

*Restriction: Must be in the Behavior, Evolution, Ecology, and Systematics (BEES) concentration area of the Biological Sciences program; or permission of the instructor. Credit only granted for: BEES608A, BIOL608D or BISI610. Formerly: BEES608A.*

*This literature-based course serves as an intellectual orientation for new (i.e. first- and second-year) doctoral students in the Behavior, Evolution, Ecology, and Systematics (BEES) concentration area of the Biological Sciences (BISI) Graduate Program.*

| | | |
|---|---|---|
| 0101 | Daniel Gruner | Seats (Total: 10) |
| | M 4:00pm - 6:00pm | Location: TBA |

**BISI620** **Bioinformatics and Genomics**

*Credit only granted for: CBMG688Y or BISI620. Formerly: CBMG688Y.*

*Provides an overview of some major topics and research areas bioinformatics and genomics, and includes material from basic foundations through advanced concepts.*

| | | |
|---|---|---|
| 0101 | Michael Cummings, Najib El-Sayed | Seats (Total: 24) |
| | **Meets August 26, 2024 - October 15, 2024** | |
| | TuTh 9:00am - 10:50am | BPS 1232 |

**BISI622** **Programming for Biology**

*Prerequisite: Same as CBMG688P. Credit only granted for: BISI622 and CBMG688P. Formerly: CBMG688P.*

*Special Topics in Cell Biology and Molecular Genetics; Programming for Biology*

| | | |
|---|---|---|
| 0101 | Stephen Mount, Najib El-Sayed | Seats (Total: 25) |
| | **Meets October 18, 2024 - December 9, 2024** | |
| | TuTh 9:00am - 10:50am | BPS 1232 |

**BISI699** **Special Problems in Biological Sciences**

(Perm req)

*Independent study with a specific faculty instructor from the Biological Sciences Program (BISI). Often involves original research in a laboratory or computational setting.*

**Contact department for information to register for this course.**

**BISI701** **Teaching & Professional Development in Biology**

*Cross-listed with: ENTM701. Credit only granted for: ENTM701, BISI688Z, CBMG688Z, or BIOL701. Formerly: BISI688Z, CBMG688Z, BIOL701. Additional information: Priority enrollment will be given to students in the BISI Graduate Program.*

*Provides graduate students in the biological sciences with the foundational knowledge to become better teaching assistants and gives them an introduction into the skills and tools that they need to develop as professional scientists and educators.*

| | | |
|---|---|---|
| 0101 | Wade Winkler<br>Tu 6:00pm - 8:00pm | Seats (Total: 20)<br>BPS 1238 |
| 0201 | Leslie Pick<br>Tu 6:00pm - 8:00pm | Seats (Total: 20)<br>PLS 4102 |

**BISI712** **Responsible Conduct of Research for Biologists**

*Credit only granted for: BISI712, BISI688B, or CBMG688B. Formerly: BISI688B and CBMG688B.*

*An exploration of the ethical dimensions associated with the responsible conduct of scientific research focusing on providing students with practical insights into the existing norms and expectations of working scientists.*

| | | |
|---|---|---|
| 0101 | Tom Porter<br>**Meets October 22, 2024 - December 9, 2024**<br>W 3:00pm - 5:00pm | Seats (Total: 16)<br><br>BRB 3101 |
| 0201 | David Mosser<br>**Meets October 22, 2024 - December 9, 2024**<br>Tu 9:00am - 11:00am | Seats (Total: 16)<br><br>BRB 3101 |

**BISI799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**BISI898** **Pre-Candidacy Research**

Restriction: Must be in Biological Sciences (Doctoral) program.

**Contact department for information to register for this course.**

**BISI899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# BMGT Business and Management Fall 2024

**BMGT099** **Internship Seminar**

(Perm req)

*Complements students' supervised work experiences. Involves exploring career options, developing professional work skills, examining the relationship between internship and academic coursework. Course may be repeated.*

**Contact department for information to register for this course.**

**BMGT110 Introduction to the Business Value Chain**

*Students are provided with an introduction to the business value chain with an emphasis on inter-organizational and intra-organizational coordination of core business processes. Emphasis is on cross-functional integration and the efficient and effective management of core processes with an emphasis on marketing, operations and supply chain management.*

| | | |
|---|---|---|
| 0101 | Jeffrey Miller<br>MW 2:00pm - 3:15pm | Seats (Total: 250)<br>VMH 1524 |

**BMGT110F Introduction to the Business Value Chain**

Restricted to Smith School's Smith Start (FPFF) students.

| | | |
|---|---|---|
| 0101 | Leland Gardner<br>M 8:00am - 9:15am<br>W 8:00am - 9:15am | Seats (Total: 45)<br>VMH 1307<br>Location: TBA |
| 0201 | Leland Gardner<br>M 9:30am - 10:45am<br>W 9:30am - 10:45am | Seats (Total: 45)<br>VMH 1307<br>Location: TBA |
| 0301 | Leland Gardner<br>M 12:30pm - 1:45pm<br>W 12:30pm - 1:45pm | Seats (Total: 45)<br>VMH 1418<br>Location: TBA |
| 0401 | Jeffrey Mund<br>Th 11:00am - 12:15pm<br>Tu 11:00am - 12:15pm | Seats (Total: 45)<br>VMH 1303<br>Location: TBA |
| 0501 | Jeffrey Mund<br>Th 9:30am - 10:45am<br>Tu 9:30am - 10:45am | Seats (Total: 45)<br>VMH 1303<br>Location: TBA |
| 0601 | Jeffrey Mund<br>Tu 9:30am - 10:45am<br>Th 9:30am - 10:45am | Seats (Total: 45)<br>VMH 1303<br>Location: TBA |

| | | |
|---|---|---|
| 0701 | Jeffrey Mund<br>Tu 11:00am - 12:15pm<br>Th 11:00am - 12:15pm | Seats (Total: 45)<br>VMH 1303<br>Location: TBA |
| 0801 | Jeffrey Mund<br>Tu 12:30pm - 1:45pm<br>Th 12:30pm - 1:45pm | Seats (Total: 45)<br>VMH 1303<br>Location: TBA |
| 0901 | Jeffrey Mund<br>Th 12:30pm - 1:45pm<br>Tu 12:30pm - 1:45pm | Seats (Total: 45)<br>VMH 1303<br>Location: TBA |
| 1001 | Geoffrey Milsom<br>W 9:30am - 10:45am<br>M 9:30am - 10:45am | Seats (Total: 45)<br>VMH 1307<br>Location: TBA |

**BMGT110L** **Introduction to the Business Value Chain**

*Students are provided with an introduction to the business value chain with an emphasis on inter-organizational and intra-organizational coordination of core business processes. Emphasis is on cross-functional integration and the efficient and effective management of core processes with an emphasis on marketing, operations and supply chain management.*

Restricted to Smith Business Leadership Fellows (SBLF).

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|---|---|---|
| 0101 | Jon Crocker<br>M 3:30pm - 4:45pm<br>W 3:30pm - 4:45pm | Seats (Total: 28)<br>VMH 1311<br>Location: TBA |
| 0201 | Jon Crocker<br>W 3:30pm - 4:45pm<br>M 3:30pm - 4:45pm | Seats (Total: 28)<br>VMH 1311<br>Location: TBA |

**BMGT161** **Creative Problem Solving**

*Examines the concept of creative problem solving as it applies in today's and tomorrow's complex business environment. Students will develop an understanding of the creative problem solving process with its distinctive cognitive steps of Divergent Thinking, Emergent Thinking and Convergent Thinking. Topics include creativity techniques for groups and individuals, creativity as a foundation to recognize business opportunities and develop innovative products and services, selecting ideas and making them stick, mental and organizational obstacles to creativity as well as an overview of electronic tools to increase creative capability.*

Restriction: Must be enrolled in College Park Scholars' Business, Society and the Economy (CPBE) program.

| | | | |
|---|---|---|---|
| 0101 | Oliver Schlake<br>MW 9:30am - 10:45am | Seats (Total: 50)<br>CCC 1111 | |
| 0201 | Oliver Schlake<br>MW 11:00am - 12:15pm | Seats (Total: 50)<br>CCC 1111 | |

**BMGT162** **The Future of You, Business and Society**

*Designed to help you (students) explore the future of you, business, and society. Even as the nature of business (the how) evolves with technology, the purpose of business --to create individual and social prosperity (the why) --remains the same. This course will integrate the "why" and the "how" to prepare students for the future of work. Students will learn the foundational concepts of how to lead themselves with purpose and develop win-win relationships. Students will also learn how organizations solve unmet needs in society, and how they develop and leverage the power of technology and new business practices to create value in a sound and ethical way.*

Restricted to Smith Business Leadership Fellows (SBLF).

| | | | |
|---|---|---|---|
| 0101 | Rajshree Agarwal<br>TuTh 2:00pm - 3:15pm<br>Tu 6:00pm - 7:00pm | Seats (Total: 37)<br>VMH 1407<br>VMH 1407 | <br><br>Discussion |
| 0201 | Christine Schaaf<br>TuTh 2:00pm - 3:15pm<br>Tu 6:00pm - 7:00pm | Seats (Total: 37)<br>VMH 1407<br>VMH 1407 | <br><br>Discussion |

**BMGT190H** **Introduction to Design and Quality**

*Restriction: Must be in the Quest program. Cross-listed with: ENED290. Credit only granted for: BMGT190, ENES190, ENED290, or BMGT290. Formerly: BMGT190 and ENES190.*

*The first QUEST course introduces foundational principles of design and quality, emphasizing their impact on product development and customer satisfaction. Working in multidisciplinary teams, students will explore design thinking, project management techniques, and quality tools, applying these frameworks to real-world product redesigns and innovations.*

Restricted to Quest Program students.

*A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE): Click here for more information on the Fearless Ideas Courses.*

| | | | |
|---|---|---|---|
| 0101 | Christopher Troilo<br>TuTh 12:30pm - 1:45pm<br>Tu 6:00pm - 7:50pm | Seats (Total: 45)<br>VMH 1407<br>ESJ 2101 | <br><br>Discussion |

**BMGT207** **Technology, Society and the Future of Humanity**

*What ethical considerations should govern the creation, distribution, and use of artificial intelligence innovations in industry, polity, and society in the future? New and emerging innovations in artificial intelligence (AI) are disrupting sectors as diverse as healthcare, medicine, finance, operations, supply chain, manufacturing, media and journalism, and the creative industries. In the near future, the dependence of humans on AI for a myriad of social activities including companionship and care is also expected to accelerate. This course deals with the question of how we should ensure AI will create ethical economic and social systems that reflect the kind of world we want to live in 20 to 30 years from now. The values and ethics of society will influence and govern how AI can either contribute to humanity or lead to a dystrophic future. The learning outcomes are being expected to also provide more detail about the courses content.*

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|---|---|---|---|
| 0101 | Anand Anandalingam<br>Th 6:30pm - 9:10pm | Seats (Total: 60)<br>VMH 1412 | |

**BMGT210** **Foundations of Accounting for Non Business Majors**

*Restriction: Must not have completed BMGT221; and must not be in a major in the R.H. Smith School of Business. Credit only granted for: (BMGT220 and BMGT221) or BMGT210. Additional information: Does not apply to a Smith School degree. Students pursuing a Smith School minor who have completed both BMGT220 and BMGT221 may substitute these courses for BMGT210. Credit will not be given for both BMGT210 and the combination of BMGT220 and BMGT221.*

*Provides an understanding of the common statements that report a company's profitability and financial health, and are useful to all economic agents who are engaged with the firm. Students will also recognize and understand managerial accounting as a system for accumulating and modeling information to support decision-making.*

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|---|---|---|---|
| 0101 | Darlene Dennison<br>Class time/details on ELMs | Seats (Total: 180)<br>ONLINE | |
| 0201 | Darlene Dennison<br>Class time/details on ELMs | Seats (Total: 180)<br>ONLINE | |

**BMGT220** **Principles of Accounting I**

*Basic theory and techniques of contemporary financial accounting. Includes the accounting cycle and the preparation of financial statements for single owner and partnership forms of business organizations operating as service companies or merchandisers.*

Restricted to all students with 24 credit hours completed.

| | | | |
|---|---|---|---|
| 0101 | Progyan Basu<br>TuTh 9:30am - 10:45am<br>F 10:00am - 10:50am | Seats (Total: 39)<br>VMH 1524<br>VMH 1335 | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 0102 | Progyan Basu<br>TuTh 9:30am - 10:45am<br>F 11:00am - 11:50am | Seats (Total: 39)<br>VMH 1524<br>VMH 1335 | <br><br>Discussion |
| 0103 | Progyan Basu<br>TuTh 9:30am - 10:45am<br>F 12:00pm - 12:50pm | Seats (Total: 39)<br>VMH 1524<br>VMH 1335 | <br><br>Discussion |
| 0104 | Progyan Basu<br>TuTh 9:30am - 10:45am<br>F 1:00pm - 1:50pm | Seats (Total: 39)<br>VMH 1524<br>VMH 1335 | <br><br>Discussion |
| 0201 | Progyan Basu<br>TuTh 11:00am - 12:15pm<br>F 10:00am - 10:50am | Seats (Total: 39)<br>VMH 1524<br>VMH 1307 | <br><br>Discussion |
| 0202 | Progyan Basu<br>TuTh 11:00am - 12:15pm<br>F 11:00am - 11:50am | Seats (Total: 39)<br>VMH 1524<br>VMH 1307 | <br><br>Discussion |
| 0203 | Progyan Basu<br>TuTh 11:00am - 12:15pm<br>F 12:00pm - 12:50pm | Seats (Total: 39)<br>VMH 1524<br>VMH 1307 | <br><br>Discussion |
| 0204 | Progyan Basu<br>TuTh 11:00am - 12:15pm<br>F 1:00pm - 1:50pm | Seats (Total: 39)<br>VMH 1524<br>VMH 1307 | <br><br>Discussion |
| 0301 | Progyan Basu<br>TuTh 12:30pm - 1:45pm<br>F 11:00am - 11:50am | Seats (Total: 39)<br>VMH 1524<br>VMH 1336 | <br><br>Discussion |
| 0302 | Progyan Basu<br>TuTh 12:30pm - 1:45pm<br>F 12:00pm - 12:50pm | Seats (Total: 39)<br>VMH 1524<br>VMH 1336 | <br><br>Discussion |
| 0303 | Progyan Basu<br>TuTh 12:30pm - 1:45pm<br>F 1:00pm - 1:50pm | Seats (Total: 39)<br>VMH 1524<br>VMH 1336 | <br><br>Discussion |

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|---|---|---|---|
| 0304 | Progyan Basu<br>TuTh 12:30pm - 1:45pm<br>F 2:00pm - 2:50pm | Seats (Total: 39)<br>VMH 1524<br>VMH 1336 | <br><br>Discussion |

**BMGT221** **Principles of Accounting II**

*Prerequisite: BMGT220.*

*Basic theory and techniques of accounting for managerial decision making. Involves the introduction of the corporation and manufacturing operations. Includes cost-volume-profit analysis and capital budgeting. Introduces the topics of income taxation and international accounting.*

Restricted to students with 24 credit hours completed.

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|---|---|---|---|
| 0101 | Mark Zakota<br>TuTh 2:00pm - 3:15pm<br>F 10:00am - 10:50am | Seats (Total: 48)<br>VMH 1524<br>VMH 1202 | <br><br>Discussion |
| 0102 | Mark Zakota<br>TuTh 2:00pm - 3:15pm<br>F 11:00am - 11:50am | Seats (Total: 48)<br>VMH 1524<br>VMH 1202 | <br><br>Discussion |
| 0103 | Mark Zakota<br>TuTh 2:00pm - 3:15pm<br>F 12:00pm - 12:50pm | Seats (Total: 48)<br>VMH 1524<br>VMH 1202 | <br><br>Discussion |
| 0104 | Mark Zakota<br>TuTh 2:00pm - 3:15pm<br>F 1:00pm - 1:50pm | Seats (Total: 48)<br>VMH 1524<br>VMH 1202 | <br><br>Discussion |
| 0201 | Mark Zakota<br>TuTh 3:30pm - 4:45pm<br>F 11:00am - 11:50am | Seats (Total: 48)<br>VMH 1524<br>VMH 1206 | <br><br>Discussion |
| 0202 | Mark Zakota<br>TuTh 3:30pm - 4:45pm<br>F 12:00pm - 12:50pm | Seats (Total: 48)<br>VMH 1524<br>VMH 1206 | <br><br>Discussion |
| 0203 | Mark Zakota<br>TuTh 3:30pm - 4:45pm<br>F 1:00pm - 1:50pm | Seats (Total: 48)<br>VMH 1524<br>VMH 1206 | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 0204 | Mark Zakota<br>TuTh 3:30pm - 4:45pm<br>F 2:00pm - 2:50pm | Seats (Total: 48)<br>VMH 1524<br>VMH 1206 | <br><br>Discussion |

**BMGT221L** **Principles of Accounting II**

*Prerequisite: BMGT220.*

*Basic theory and techniques of accounting for managerial decision making. Involves the introduction of the corporation and manufacturing operations. Includes cost-volume-profit analysis and capital budgeting. Introduces the topics of income taxation and international accounting.*

Restricted to Smith Business Leadership Fellows (SBLF); College Park Scholars - Business, Society and the Economy (CPBE); and Interdisciplinary Business Honors (HBUS) majors.

| | | | |
|---|---|---|---|
| 0101 | Michael McMillan<br>MW 11:00am - 12:15pm | Seats (Total: 35)<br>VMH 2511 | |
| 0201 | Michael McMillan<br>MW 12:30pm - 1:45pm | Seats (Total: 35)<br>VMH 2511 | |

**BMGT230** **Business Statistics**

*Prerequisite: MATH113 or MATH115; or must have math eligibility of MATH120 or higher. Restriction: Must not have completed ENCE302, ENME392, STAT400, BMGT231, or ENEE324.*

*Introductory course in probabilistic and statistical concepts including descriptive statistics, set-theoretic development of probability, the properties of discrete and continuous random variables, sampling theory, estimation, hypothesis testing, regression and decision theory and the application of these concepts to problem solving in business and management.*

Where a BMGT exam conflicts with a regularly scheduled class, the student will be provided with a makeup exam.

| | | | |
|---|---|---|---|
| 0101 | Liz Stanwyck<br>MW 9:30am - 10:45am<br>F 9:00am - 9:50am | Seats (Total: 30)<br>VMH 1524<br>VMH 1311 | <br><br>Discussion |
| 0102 | Liz Stanwyck<br>MW 9:30am - 10:45am<br>F 10:00am - 10:50am | Seats (Total: 30)<br>VMH 1524<br>VMH 1311 | <br><br>Discussion |
| 0103 | Liz Stanwyck<br>MW 9:30am - 10:45am<br>F 11:00am - 11:50am | Seats (Total: 30)<br>VMH 1524<br>VMH 1311 | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 0104 | Liz Stanwyck<br>MW 9:30am - 10:45am<br>F 12:00pm - 12:50pm | Seats (Total: 30)<br>VMH 1524<br>VMH 1311 | Discussion |
| 0105 | Liz Stanwyck<br>MW 9:30am - 10:45am<br>F 1:00pm - 1:50pm | Seats (Total: 30)<br>VMH 1524<br>VMH 1311 | Discussion |
| 0106 | Liz Stanwyck<br>MW 9:30am - 10:45am<br>F 2:00pm - 2:50pm | Seats (Total: 30)<br>VMH 1524<br>VMH 1311 | Discussion |
| 0201 | Liz Stanwyck<br>MW 11:00am - 12:15pm<br>F 9:00am - 9:50am | Seats (Total: 30)<br>VMH 1524<br>VMH 1418 | Discussion |
| 0202 | Liz Stanwyck<br>MW 11:00am - 12:15pm<br>F 10:00am - 10:50am | Seats (Total: 30)<br>VMH 1524<br>VMH 1418 | Discussion |
| 0203 | Liz Stanwyck<br>MW 11:00am - 12:15pm<br>F 11:00am - 11:50am | Seats (Total: 30)<br>VMH 1524<br>VMH 1418 | Discussion |
| 0204 | Liz Stanwyck<br>MW 11:00am - 12:15pm<br>F 12:00pm - 12:50pm | Seats (Total: 30)<br>VMH 1524<br>VMH 1418 | Discussion |
| 0205 | Liz Stanwyck<br>MW 11:00am - 12:15pm<br>F 1:00pm - 1:50pm | Seats (Total: 30)<br>VMH 1524<br>VMH 1418 | Discussion |
| 0206 | Liz Stanwyck<br>MW 11:00am - 12:15pm<br>F 2:00pm - 2:50pm | Seats (Total: 30)<br>VMH 1524<br>VMH 1418 | Discussion |
| 0301 | Liz Stanwyck<br>MW 12:30pm - 1:45pm<br>F 9:00am - 9:50am | Seats (Total: 30)<br>VMH 1524<br>VMH 1303 | Discussion |

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|---|---|---|---|
| 0302 | Liz Stanwyck<br>MW 12:30pm - 1:45pm<br>F 10:00am - 10:50am | Seats (Total: 30)<br>VMH 1524<br>VMH 1303 | Discussion |
| 0303 | Liz Stanwyck<br>MW 12:30pm - 1:45pm<br>F 11:00am - 11:50am | Seats (Total: 30)<br>VMH 1524<br>VMH 1303 | Discussion |
| 0304 | Liz Stanwyck<br>MW 12:30pm - 1:45pm<br>F 12:00pm - 12:50pm | Seats (Total: 30)<br>VMH 1524<br>VMH 1303 | Discussion |
| 0305 | Liz Stanwyck<br>MW 12:30pm - 1:45pm<br>F 1:00pm - 1:50pm | Seats (Total: 30)<br>VMH 1524<br>VMH 1303 | Discussion |
| 0306 | Liz Stanwyck<br>MW 12:30pm - 1:45pm<br>F 2:00pm - 2:50pm | Seats (Total: 30)<br>VMH 1524<br>VMH 1303 | Discussion |
| FC01 | Radu Lazar<br>MW 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 32)<br>SQH 1103 | |

**BMGT230L** **Business Statistics**

*Prerequisite: MATH113 or MATH115; or must have math eligibility of MATH120 or higher. Restriction: Must not have completed ENCE302, ENME392, STAT400, BMGT231, or ENEE324.*

*Introductory course in probabilistic and statistical concepts including descriptive statistics, set-theoretic development of probability, the properties of discrete and continuous random variables, sampling theory, estimation, hypothesis testing, regression and decision theory and the application of these concepts to problem solving in business and management.*

Course restricted to Smith Business Leadership Fellows (SBLF); College Park Scholars - Business, Society and the Economy (CPBE); and Interdisciplinary Business Honors (HBUS)

| | | | |
|---|---|---|---|
| 0101 | Ilya Ryzhov<br>MW 9:30am - 10:45am | Seats (Total: 40)<br>VMH 1311 | |

**BMGT262** **The Enterprising Leader**

*Designed to help students develop their leadership skills in order to identify their personal and professional purpose with an entrepreneurial mindset, and create strategies that will help them develop their abilities and achieve their aspirations by collaborating within teams and organizations. Students will apply insights from recent scholarship in entrepreneurship, leadership and strategic management to themselves in order to identify solutions to problems they find meaningful to solve in their own world. This self-discovery course will introduce students to the "CEO of ME, Inc." framework and tools such as the strategic initiatives matrix and business model canvas that they can use to help guide the choices that lie ahead, and develop collaborative, win-win relationships. In doing so, students will learn how to unlock the value of business in society and develop entrepreneurial and leadership skills that enable personal happiness and upward mobility.*

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|---|---|---|
| 0101 | Neta Moye<br>MW 11:00am - 12:15pm | Seats (Total: 40)<br>TWS 0201 |

**BMGT263 Challenge your Thinking, Challenge the Conversation**

*Provides conceptual frameworks and experiential opportunities that will enable students to engage in rational and respectful discourse. The course uses the latest pedagogical techniques and relevant literature to develop skills such as thinking like a scientist, negotiating conflict, and giving and receiving constructive feedback. Specific conversations will draw from current events and issues in business and in society.*

Restricted to Smith Business Leadership Fellows (SBLF)

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|---|---|---|
| 0101 | Protiti Dastidar<br>MW 12:30pm - 1:45pm | Seats (Total: 32)<br>VMH 1407 |
| 0201 | Rellie Rozin<br>MW 12:30pm - 1:45pm | Seats (Total: 32)<br>VMH 1407 |

**BMGT289B How Do Innovators Think?**

*In this course, students will learn about: a) the innovation process and the role of the individual in generating innovations and b) the attributes, habits, and skills of individuals who have successfully started innovative new businesses or significantly added value to an existing company.*

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|---|---|---|
| 0101 | Clarence Wesley<br>W 2:00pm - 3:15pm<br>Class time/details on ELMs | Seats (Total: 60)<br>SQH 1119<br>ONLINE |

**BMGT289D Frauds, Scams, and Thefts: What, How and Why?**

*"Why" does fraud happen? "How" does society address fraud? And "What" can you do to avoid and prevent fraud in your personal and future career life? This course is designed to give future professionals and managers of all disciplines a general background of fraud. Topics include the psychology of fraud, the mechanics of fraud, the legal landscape, securities fraud, cybercrime, and what all of us should know to protect ourselves from becoming victims of fraud. Additionally, students experience 21st century lessons in fraud examination that have practical application to our daily lives: avoiding cognitive biases, interviewing techniques, basic business controls, and opening our minds to see what others might miss...the red flags of fraud.*

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|---|---|---|
| 0101 | Samuel Handwerger<br>MW 3:30pm - 4:45pm | Seats (Total: 60)<br>ESJ 0215 |
| 0201 | Samuel Handwerger<br>MW 5:00pm - 6:15pm | Seats (Total: 60)<br>ESJ 0215 |

**BMGT289E** **Entrepreneurial Thinking for Non-Business Majors: How Not to Miss Great Opportunities Your Life Throws at You**

*In this course, students learn how to analyze the world around them and then notice and define new trends, emerging problems, impending gaps, and how to turn these into exciting opportunities by providing creative solutions. Students will have a chance to not only sharpen their critical thinking skills, but also learn how to take initiative, develop a working solution, identify and resolve conflicts, and be confident and persistent, yet flexible enough to respond to changes. Student teams identify a compelling problem in present day life and then propose a creative solution taking into account possible difficulties in implementation. In addition, students will also be given problems on a much smaller scale and asked to create and present a workable solution. Students will be exposed to how a visionary's mind works and the creative solution process. In addition, students will also learn how entrepreneurial thinking can improve their day-to-day life.*

| | | |
|---|---|---|
| 0101 | Oliver Schlake<br>MW 2:00pm - 3:15pm | Seats (Total: 60)<br>TWS 1310 |
| 0201 | Oliver Schlake<br>MW 3:30pm - 4:45pm | Seats (Total: 60)<br>ESJ 2212 |

**BMGT289I** **Why Good Managers Make Bad Decisions**

*This course provides an overview of the concepts, approaches, and vocabulary of evidence-based management (EBM) and provides an understanding of how experts in many disciplines can employ evidenced based decision making. EBM is an emerging movement in business to explicitly use the current best information in management decision making with special emphasis on relevant scientific findings and unbiased organizational facts. The course stresses how individuals practicing EBM learn how to rethink their approaches to data and knowledge in order to make more effective decisions.*

Why do smart managers make flawed decisions? Why do managers keep believing they have made the right choice, even with disastrous results staring them in the face? Why Good Managers Make Bad Decisions will address how evidence-based management and other decisionmaking tools can be used to uncover hidden assumptions in the corner offices of great corporations.

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|---|---|---|
| 0101 | Jeffrey Miller<br>MW 3:30pm - 4:45pm | Seats (Total: 240)<br>VMH 1524 |
| FC01 | Jeffrey Miller<br>MW 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 34)<br>SQH 1101 |

**BMGT298J** **Special Topics in Business and Management; Personal Financial Success During College**

*Introductory special topics in business and management.*

| | | |
|---|---|---|
| 0101 | Michael McMillan<br>**Meets September 9, 2024 - October 18, 2024**<br>Class time/details on ELMs | Seats (Total: 150)<br><br>ONLINE |

**BMGT298K** **Special Topics in Business and Management; Personal Financial Success After College**

*Introductory special topics in business and management.*

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|---|---|---|
| 0101 | Michael McMillan<br>**Meets September 9, 2024 - October 18, 2024**<br>Class time/details on ELMs | Seats (Total: 150)<br><br>ONLINE |

**BMGT298L** **Special Topics in Business and Management; Start-up Nation? Tech Entrepreneurship in Israel**

*Introductory special topics in business and management.*

Cross-listed with ISRL249J and ECON298I. Credit only granted for ISRL249J, ECON298I, or BMGT298L. This interdisciplinary course will explore the unique ecosystem that has contributed to the creation and success of the Israeli tech sector. The course addresses cultural, historical, and social factors and examines key moments and individuals in the country's startup landscape.Through case studies, guest lectures, and interactive projects, students will gain practical insights into entrepreneurship. The course also addresses the ethical considerations and social impacts of entrepreneurship in Israel, providing a well-rounded understanding of the complexities of starting a business in this dynamic environment.

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|---|---|---|
| 0101 | Aner Tal<br>TuTh 12:30pm - 1:45pm | Seats (Total: 35)<br>PLS 1113 |

**BMGT301** **Introduction to Information Systems**

*Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Additional information: CMSC majors will not receive credit for this course towards their upper level concentration in their CMSC major. All BMGT majors, including students who are a double major in CMSC, must complete BMGT301 for their BMGT degree.*

*Comprehensive overview of information systems (IS), which explores the strategic and tactical nature of IS. The basic concepts in analyzing and designing information systems for business applications will be presented. Aspects of data management such as databases, data warehousing, data analysis, and data mining will be analyzed, and the basics of web page and web site design will be outlined. Students will also be introduced to modern information systems infrastructure such as telecommunications, networks, and information systems security. Knowledge of Excel or a similar spreadsheet tool.*

Restricted to Information Systems majors with 45 credits completed and other BMGT majors with 53 credits completed.

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|---|---|---|
| 0101 | Zeinab Karake<br>MW 12:30pm - 1:45pm | Seats (Total: 65)<br>VMH 1412 |
| 0201 | Zeinab Karake<br>MW 3:30pm - 4:45pm | Seats (Total: 65)<br>VMH 1505 |
| 0301 | Zeinab Karake<br>MW 5:00pm - 6:15pm | Seats (Total: 65)<br>VMH 1505 |
| 0401 | Bharti Motwani<br>TuTh 12:30pm - 1:45pm | Seats (Total: 65)<br>VMH 1212 |
| 0501 | Bharti Motwani<br>TuTh 3:30pm - 4:45pm | Seats (Total: 60)<br>VMH 1412 |
| 0601 | Bharti Motwani<br>TuTh 5:00pm - 6:15pm | Seats (Total: 65)<br>VMH 1412 |
| 0701 | Bharti Motwani<br>TuTh 11:00am - 12:15pm | Seats (Total: 65)<br>VMH 1412 |

**BMGT301F** **Introduction to Information Systems**

*Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Additional information: CMSC majors will not receive credit for this course towards their upper level concentration in their CMSC major. All BMGT majors, including students who are a double major in CMSC, must complete BMGT301 for their BMGT degree.*

*Comprehensive overview of information systems (IS), which explores the strategic and tactical nature of IS. The basic concepts in analyzing and designing information systems for business applications will be presented. Aspects of data management such as databases, data warehousing, data analysis, and data mining will be analyzed, and the basics of web page and web site design will be outlined. Students will also be introduced to modern information systems infrastructure such as telecommunications, networks, and information systems security. Knowledge of Excel or a similar spreadsheet tool.*

Restricted to second year students in the Smith School's Smith Start program (FPFF).

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|---|---|---|
| 0101 | Zeinab Karake<br>MW 9:30am - 10:45am | Seats (Total: 65)<br>VMH 1412 |
| 0201 | Zeinab Karake<br>MW 11:00am - 12:15pm | Seats (Total: 65)<br>VMH 1412 |

**BMGT301L Introduction to Information Systems**

*Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Additional information: CMSC majors will not receive credit for this course towards their upper level concentration in their CMSC major. All BMGT majors, including students who are a double major in CMSC, must complete BMGT301 for their BMGT degree.*

*Comprehensive overview of information systems (IS), which explores the strategic and tactical nature of IS. The basic concepts in analyzing and designing information systems for business applications will be presented. Aspects of data management such as databases, data warehousing, data analysis, and data mining will be analyzed, and the basics of web page and web site design will be outlined. Students will also be introduced to modern information systems infrastructure such as telecommunications, networks, and information systems security. Knowledge of Excel or a similar spreadsheet tool.*

Restricted to Smith Business Leadership Fellows (SBLF); College Park Scholars - Business, Society and the Economy (CPBE); and Interdisciplinary Business Honors (HBUS) majors.

| | | |
|---|---|---|
| 0101 | Prabhudev Konana<br>MW 2:00pm - 3:15pm | Seats (Total: 65)<br>VMH 1407 |

**BMGT302 Essential Programming Skills for Business Analytics**

*Prerequisite: BMGT301; or permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business; and must not be in the Computer Science major.*

*The course introduces structured and object-oriented programming and its applications in business functions and analytics. Students will apply problem-solving skills to create software solutions using programming logic and data structures. The course especially emphasizes learning by doing exercises using a modern, high-level programming language and industry standard software.*

Restricted to Information Systems majors with 45 credits completed and other BMGT majors and Business Analytics minors with 53 credits completed. Not open to Computer Science.

| | | |
|---|---|---|
| 0101 | John Bono<br>TuTh 3:30pm - 4:45pm | Seats (Total: 30)<br>VMH 2203 |
| 0201 | John Bono<br>TuTh 9:30am - 10:45am | Seats (Total: 30)<br>VMH 2203 |
| 0301 | John Bono<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>VMH 2203 |
| 0401 | Woei-jyh Lee<br>MW 8:00am - 9:15am | Seats (Total: 30)<br>VMH 2203 |

**BMGT302F** **Essential Programming Skills for Business Analytics**

*Prerequisite: BMGT301; or permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business; and must not be in the Computer Science major.*

*The course introduces structured and object-oriented programming and its applications in business functions and analytics. Students will apply problem-solving skills to create software solutions using programming logic and data structures. The course especially emphasizes learning by doing exercises using a modern, high-level programming language and industry standard software.*

Restricted to students in the Smith School's iTBT Fellows program.

| | | |
|---|---|---|
| 0101 | John Bono<br>TuTh 11:00am - 12:15pm | Seats (Total: 25)<br>VMH 2203 |

**BMGT310** **Intermediate Accounting I**

*Prerequisite: BMGT221.*

*Comprehensive analysis of financial accounting topics related to financial statement preparation and external reporting.*

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|---|---|---|
| 0101 | Naman Desai<br>MW 9:30am - 10:45am<br>*Restricted to Accounting and Finance majors with 53 credit hours completed.* | Seats (Total: 40)<br>VMH 1314 |
| 0201 | Naman Desai<br>MW 11:00am - 12:15pm<br>*Restricted to Accounting and Finance majors with 53 credit hours completed.* | Seats (Total: 40)<br>VMH 1307 |

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|---|---|---|
| 0301 | Sean Cao<br>MW 12:30pm - 1:45pm<br>*Restricted to Accounting and Finance majors with 53 credit hours completed.* | Seats (Total: 40)<br>VMH 1314 |
| 0401 | Sean Cao<br>MW 11:00am - 12:15pm<br>*Restricted to Accounting and Finance majors with 53 credit hours completed.* | Seats (Total: 40)<br>VMH 1314 |
| ESG1 | Lu Zhang<br>TuTh 9:30am - 10:45am<br>*Restricted to BMGT-Shady Grove Juniors majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.* | Seats (Total: 45)<br>BLD2 2062 |

**BMGT311 Intermediate Accounting II**

*Prerequisite: BMGT310.*

*Continuation of BMGT310.*

Restricted to Accounting majors with 60 credit hours completed.

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|---|---|---|
| 0101 | Patrick McNamee<br>TuTh 2:00pm - 3:15pm | Seats (Total: 40)<br>VMH 1314 |
| 0201 | Patrick McNamee<br>TuTh 3:30pm - 4:45pm | Seats (Total: 45)<br>VMH 1206 |

**BMGT313 Financial Statement Analysis**

*Prerequisite: BMGT221.*

*Provides students with the tools to conduct a financial statement analysis, which is part of an overall business analysis. Involves understanding and using the information that financial statements are communicating to users.*

Restricted to Accounting and Finance majors with 53 credits completed.

| | | |
|---|---|---|
| 0101 | Brent Solomon<br>TuTh 11:00am - 12:15pm | Seats (Total: 45)<br>VMH 1415 |
| 0201 | Brent Solomon<br>TuTh 9:30am - 10:45am | Seats (Total: 45)<br>VMH 1415 |

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|---|---|---|
| 0301 | Brent Solomon<br>TuTh 2:00pm - 3:15pm | Seats (Total: 45)<br>VMH 1307 |

**BMGT321** **Managerial Accounting**

*Prerequisite: BMGT221.*

*A study of the basic concepts of product costing and cost analysis for management planning and control. Emphasis is placed on the role of the accountant in organizational management, analysis of cost behavior, standard cost budgeting, responsibility accounting and relevant costs for decision-making.*

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|---|---|---|
| 0101 | Lu Zhang<br>MW 2:00pm - 3:15pm<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 40)<br>VMH 1518 |
| 0201 | Lu Zhang<br>TuTh 3:30pm - 4:45pm<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 40)<br>VMH 1314 |
| 0301 | Ari Callow<br>MW 5:00pm - 6:15pm<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 40)<br>VMH 1333 |
| ESG1 | Lu Zhang<br>TuTh 12:30pm - 1:45pm<br>*Restricted to BMGT-Shady Grove Seniors majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.* | Seats (Total: 30)<br>BLD2 2062 |

**BMGT323** **Taxation of Individuals**

*Prerequisite: BMGT221.*

*Federal taxation of individuals focusing on income, exclusions, deductions, depreciation, credits and capital transactions. Property coverage includes the tax consequences of sales and dispositions of investment and business assets. Both tax planning and compliance issues are covered.*

Restricted to Accounting majors with 53 credit hours completed.

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|---|---|---|
| 0101 | Jeffrey Milton<br>MW 9:30am - 10:45am | Seats (Total: 45)<br>VMH 1415 |

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|---|---|---|
| 0201 | Jeffrey Milton<br>TuTh 3:30pm - 4:45pm | Seats (Total: 40)<br>VMH 2511 |

**BMGT326 Accounting Systems**

*Prerequisite: BMGT221; and (BMGT201 or BMGT301).*

*A study of accounting systems and computer and communications technology.*

Restricted to Accounting majors with 60 credit hours completed.

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|---|---|---|
| 0101 | James McKinney<br>MW 2:00pm - 3:15pm | Seats (Total: 45)<br>VMH 1307 |
| 0201 | Lei Zhou<br>MW 3:30pm - 4:45pm | Seats (Total: 45)<br>VMH 1307 |

**BMGT332 Quantitative Models for Management Decisions**

*Prerequisite: BMGT231 or BMGT230; or students who have taken courses with comparable content may contact the department.*

*The aim of this course is to introduce management science techniques for informed decision-making that can be applied in spreadsheet models to assist in the decision-analysis process. Models include Linear Programming, Transportation and Assignment problems, network flow models, Integer and non-linear programming, Simulation and Decision Trees.*

Restricted to BMGT majors and Business Analytics minors with 53 credit hours completed.

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|---|---|---|
| 0101 | Kazim Ruhi<br>TuTh 9:30am - 10:45am | Seats (Total: 45)<br>VMH 1212 |
| 0201 | Kazim Ruhi<br>TuTh 11:00am - 12:15pm | Seats (Total: 45)<br>VMH 1212 |
| 0301 | Kazim Ruhi<br>TuTh 2:00pm - 3:15pm | Seats (Total: 45)<br>VMH 1212 |
| 0401 | Kazim Ruhi<br>TuTh 3:30pm - 4:45pm | Seats (Total: 45)<br>VMH 1212 |

**BMGT340 Business Finance**

*Prerequisite: BMGT220; and (BMGT231 or BMGT230).*

*Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.*

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|---|---|---|
| 0101 | Michael Padhi<br>MW 9:30am - 10:45am<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 70)<br>VMH 1330 |
| 0201 | Michael Padhi<br>MW 11:00am - 12:15pm<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 70)<br>VMH 1330 |
| 0301 | Terrence O'Brien<br>MW 2:00pm - 3:15pm<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 69)<br>VMH 1212 |
| 0401 | Michael Padhi<br>TuTh 9:30am - 10:45am<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 70)<br>VMH 1330 |
| 0501 | Michael Padhi<br>TuTh 11:00am - 12:15pm<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 70)<br>VMH 1330 |
| 0601 | Michael Padhi<br>TuTh 12:30pm - 1:45pm<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 70)<br>VMH 1330 |
| 0701 | Terrence O'Brien<br>MW 3:30pm - 4:45pm<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 70)<br>VMH 1212 |
| 0801 | Terrence O'Brien<br>MW 12:30pm - 1:45pm<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 70)<br>VMH 1212 |

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|---|---|---|
| ESG1 | James Seward | Seats (Total: 60) |
| | TuTh 11:00am - 12:15pm | BLD3 3202 |
| | *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.* | |
| ESG2 | James Seward | Seats (Total: 60) |
| | TuTh 12:30pm - 1:45pm | BLD3 3202 |
| | *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.* | |

**BMGT340F** **Business Finance**

*Prerequisite: BMGT220; and (BMGT231 or BMGT230).*

*Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.*

Restricted to students in the Smith School's Sophomore Finance Fellows Program.

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|---|---|---|
| 0101 | Seokwoo Lee | Seats (Total: 35) |
| | MW 2:00pm - 3:15pm | VMH 1311 |

**BMGT340N** **Business Finance**

*Prerequisite: BMGT220; and (BMGT231 or BMGT230).*

*Topics include: the principles and practices involved in the organization, financing and rehabilitation of business enterprises; the various types of securities and their use in raising funds, apportioning income, risk and control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.*

Restricted to agricultural and resource economics majors (0111C) with 53 credit hours completed.

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|---|---|---|
| 0301 | Terrence O'Brien | Seats (Total: 1) |
| | MW 2:00pm - 3:15pm | VMH 1212 |

**BMGT341** **Financial Markets**

*Prerequisite: Must have completed or be concurrently enrolled in BMGT340.*

*Shows the interconnectedness of the markets. The role of the Central bank and monetary policy is included in this context. Students develop an understanding of: (i) the determination of interest rates; (ii) financial instruments, markets and institutions; (iii) the impact of monetary policy on institutions; and (iv) how financial innovations create markets.*

Restricted to Finance majors with 60 credit hours completed.

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|---|---|---|
| 0101 | Julie Pavlovsky<br>TuTh 9:30am - 10:45am | Seats (Total: 45)<br>VMH 1418 |
| 0201 | Julie Pavlovsky<br>TuTh 11:00am - 12:15pm | Seats (Total: 45)<br>VMH 1418 |
| 0301 | Julie Pavlovsky<br>TuTh 2:00pm - 3:15pm | Seats (Total: 45)<br>VMH 1418 |

**BMGT342F** **Wall Street Finance**

(Perm req)

*Prerequisite: BMGT340.*

*Using concepts and tools of finance, students will examine a wide range of business problems and explore possible solutions. The course is designed to improve a student's problem solving capabilities, business writing and communication skills, teamwork, and planning skills. Students will also gain experience in analyzing issues frequently faced by financial decision-makers.*

Restricted to students in the Smith School's Wall Street Fellows Program.

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|---|---|---|
| 0101 | Julie Pavlovsky<br>TuTh 3:30pm - 4:45pm | Seats (Total: 35)<br>VMH 1418 |

**BMGT343** **Investments**

*Prerequisite: BMGT340. Credit only granted for: BMGT343 or ECON435. Additional information: This course cannot be used to fulfill any requirements for majors in Economics.*

*An introduction to financial investments. Topics include: securities and securities markets; investment risks, returns and constraints; portfolio policies; and institutional investment policies.*

Restricted to Finance majors with 60 credit hours completed.

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|---|---|---|
| 0101 | Yueyang Han<br>MW 12:30pm - 1:45pm | Seats (Total: 45)<br>VMH 1303 |
| 0201 | Kenneth Fuller<br>TuTh 11:00am - 12:15pm | Seats (Total: 45)<br>VMH 1307 |

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|---|---|---|
| 0301 | Kenneth Fuller<br>TuTh 12:30pm - 1:45pm | Seats (Total: 45)<br>VMH 1307 |
| 0401 | Yueyang Han<br>MW 11:00am - 12:15pm | Seats (Total: 45)<br>VMH 1303 |
| 0501 | Mark Loewenstein<br>M 5:00pm - 7:40pm | Seats (Total: 45)<br>VMH 1335 |
| 0601 | George Gao<br>TuTh 9:30am - 10:45am | Seats (Total: 45)<br>VMH 1528 |

**BMGT345** **Foundations of Financial Management for Non Business Majors**

*Prerequisite: BMGT210 or BMGT220. Restriction: Must not have completed BMGT340; and must not be a major in the R.H. Smith School of Business. Credit only granted for: BMGT345 or BMGT340. Additional information: Course does not apply to a Smith School degree. BMGT340 may substitute for BMGT345.*

*Provides students an overview of financial management. Students will understand how a business allocates financial resources in an uncertain environment to maximize shareholder value. In addition students will learn the following: how to apply accounting principles to corporate finance; how to value assets, projects, companies and investment securities; understand the relationship between risk and return and how it impacts investment and corporate decisions; how to calculate a company's cost of capital, and develop an intuitive comprehension of financial concepts and analysis.*

Restricted to General Business Minors (#BU02)

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|---|---|---|
| 0101 | Michael Padhi<br>Class time/details on ELMs | Seats (Total: 210)<br>ONLINE |

**BMGT350** **Marketing Principles and Organization**

*Recommended: ECON200.*

*An introduction to the concepts and principles of marketing including the marketing of service and nonprofit organizations. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.*

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|---|---|---|
| 0101 | Roxanne Lefkoff<br>M 9:30am - 10:45am<br>Class time/details on ELMs<br><br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 65)<br>VMH 1505<br>ONLINE |

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|---|---|---|
| 0201 | Roxanne Lefkoff<br>M 11:00am - 12:15pm<br>Class time/details on ELMs | Seats (Total: 65)<br>VMH 1505<br>ONLINE |
| | *Restricted to BMGT majors with 53 credit hours completed.* | |
| 0301 | Roxanne Lefkoff<br>M 12:30pm - 1:45pm<br>Class time/details on ELMs | Seats (Total: 65)<br>VMH 1505<br>ONLINE |
| | *Restricted to BMGT majors with 53 credit hours completed.* | |
| 0401 | Cathy Yi Chen<br>W 9:30am - 10:45am<br>Class time/details on ELMs | Seats (Total: 65)<br>VMH 1505<br>ONLINE |
| | *Restricted to BMGT majors with 53 credit hours completed.* | |
| 0501 | Rebecca Ratner<br>W 11:00am - 12:15pm<br>Class time/details on ELMs | Seats (Total: 65)<br>VMH 1505<br>ONLINE |
| | *Restricted to BMGT majors with 53 credit hours completed.* | |
| 0601 | Rebecca Ratner<br>W 12:30pm - 1:45pm<br>Class time/details on ELMs | Seats (Total: 65)<br>VMH 1505<br>ONLINE |
| | *Restricted to BMGT majors with 53 credit hours completed.* | |
| 0701 | Idil Yaveroglu<br>W 2:00pm - 3:15pm<br>Class time/details on ELMs | Seats (Total: 65)<br>VMH 1505<br>ONLINE |
| | *Restricted to BMGT majors with 53 credit hours completed.* | |
| ESG1 | Henry Boyd<br>MW 9:30am - 10:45am | Seats (Total: 60)<br>BLD4 4335 |
| | *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.* | |

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|---|---|---|
| ESG2 | Henry Boyd | Seats (Total: 60) |
| | MW 11:00am - 12:15pm | BLD4 4335 |
| | *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.* | |

**BMGT351 Marketing Research Methods**

*Prerequisite: BMGT230; and must have completed or be concurrently enrolled in BMGT350. Credit only granted for: BMGT351 or BMGT452. Formerly: BMGT452.*

*Focuses on aiding marketing decision-making through exploratory, descriptive and causal research. Develops student skills in designing market research studies, including selection of data collection method, development of data collection instrument, sample design, collection and statistical analysis of data and reporting the results, including data visualization.*

Restricted to Marketing majors with 53 credit hours completed

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|---|---|---|
| 0101 | Bo Zhou | Seats (Total: 40) |
| | TuTh 2:00pm - 3:15pm | VMH 1311 |
| | *Restricted to Marketing majors with 53 credit hours completed.* | |
| 0201 | Andy Li | Seats (Total: 40) |
| | TuTh 3:30pm - 4:45pm | VMH 1311 |
| | *Restricted to Marketing majors with 53 credit hours completed.* | |
| 0301 | Jason Choi | Seats (Total: 40) |
| | TuTh 9:30am - 10:45am | VMH 1314 |
| | *Restricted to Marketing majors with 53 credit hours completed.* | |
| 0401 | Bo Zhou | Seats (Total: 40) |
| | TuTh 12:30pm - 1:45pm | VMH 1415 |
| | *Restricted to Marketing majors with 53 credit hours completed.* | |
| ESG1 | Lin Lei | Seats (Total: 40) |
| | TuTh 11:00am - 12:15pm | BLD2 3052 |
| | *Restricted to BMGT-Shady Grove Seniors majoring in Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.* | |

**BMGT354 Consumer Analysis**

*Prerequisite: BMGT350. Credit only granted for: BMGT354 or BMGT451. Formerly: BMGT451.*

*Identifying buyer behavior concepts relevant to a specific marketing problem so that appropriate marketing decisions can be made. Conceptual frameworks are drawn from psychology, sociology, economics, and other social sciences to aid in understanding the behavior of ultimate and industrial buyers.*

Restricted to Marketing majors with 68 credit hours completed.

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|---|---|---|
| 0101 | Ali Faraji-Rad<br>MW 3:30pm - 4:45pm | Seats (Total: 40)<br>VMH 1415 |
| 0201 | Ali Faraji-Rad<br>MW 2:00pm - 3:15pm | Seats (Total: 40)<br>VMH 1415 |
| 0301 | Ali Faraji-Rad<br>MW 11:00am - 12:15pm | Seats (Total: 40)<br>VMH 1311 |

**BMGT355 Foundations of Marketing for Non Business Majors**

*Restriction: Must not have completed BMGT350; and must not be a major in the R.H. Smith School of Business. Credit only granted for: BMGT355 or BMGT350. Additional information: Course does not apply to a Smith School degree. BMGT350 may substitute for BMGT355.*

*Introduces the concepts and principles of marketing. Provides an overview of all the concepts in marketing including relationship marketing, product development, pricing, promotion, marketing research, consumer behavior, international marketing, distribution and internal marketing to employees.*

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|---|---|---|
| 0101 | Idil Yaveroglu<br>Class time/details on ELMs | Seats (Total: 180)<br>ONLINE |
| 0201 | Idil Yaveroglu<br>Class time/details on ELMs | Seats (Total: 180)<br>ONLINE |

**BMGT360 Strategic Management of Human Capital**

*Provides students with the basic knowledge needed to help organizations attract, select, develop, engage, evaluate, and retain talent. Topics covered may include strategic HRM, the role of globalization, legal issues in HRM, work analysis, HR planning, recruitment, personnel selection, performance management and appraisal, training and development, career development, compensation systems, motivating and rewarding performance, labor relations, and employee health and safety.*

Restricted to all students with 53 credit hours completed.

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|---|---|---|
| 0101 | Gregory Marr<br>MW 2:00pm - 3:15pm | Seats (Total: 60)<br>VMH 1330 |

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|---|---|---|
| 0201 | Gregory Marr<br>MW 3:30pm - 4:45pm | Seats (Total: 60)<br>VMH 1330 |

**BMGT362** **Negotiations**

*Restriction: Must not have completed COMM425. Credit only granted for: BMGT362 or COMM425.*

*By using a variety of assessment tools, feedback sources, skill-building exercises, and exercise debriefings, this experiential course is designed to enhance students' negotiating self-confidence and improve students' analytical skills, interpersonal skills, creativity and persuasive abilities.*

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|---|---|---|
| 0101 | Gosia Langa Basit<br>TuTh 2:00pm - 3:15pm<br>*Restricted to Management majors (0503G) and I&E minors (#BU03) with 53 credits.* | Seats (Total: 45)<br>VMH 1505 |
| 0201 | Gosia Langa Basit<br>TuTh 12:30pm - 1:45pm<br>*Restricted to Management majors (0503G) and I&E minors (#BU03) with 53 credits.* | Seats (Total: 45)<br>VMH 1505 |
| ESG1 | Robert Sheehan<br>TuTh 11:00am - 12:15pm<br>*Restricted to Senior BMGT-Shady Grove students majoring in Management. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.* | Seats (Total: 45)<br>BLD4 4335 |

**BMGT363** **Leadership and Teamwork in Organizations**

*Provides a comprehensive understanding of fundamental leadership concepts, theories, and skills in organizations and applies to assessing and developing effective leadership practices in organizations.*

Course restricted to Management majors (0503G & 0503E) with 53 credits.

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|---|---|---|
| 0101 | Sheetal Singh<br>TuTh 12:30pm - 1:45pm | Seats (Total: 45)<br>VMH 1308 |
| 0201 | Sheetal Singh<br>TuTh 2:00pm - 3:15pm | Seats (Total: 45)<br>VMH 1308 |

**BMGT364** **Managing People and Organizations**

*An introduction to selected aspects of human behavior in organizations generally known as organizational behavior (OB). This course is designed to help students develop systematic and fundamental understanding of people and their behaviors in organizations, as well as useful abilities and skills required to effectively and ethically manage various individual, interpersonal, group, and organization-level processes.*

| | | |
|---|---|---|
| 0101 | Roy Thomason<br>MW 12:30pm - 1:45pm<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 57)<br>VMH 1330 |
| 0201 | Gregory Marr<br>MW 9:30am - 10:45am<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 60)<br>VMH 1407 |
| 0301 | Roy Thomason<br>MW 5:00pm - 6:15pm<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 60)<br>VMH 1330 |
| 0401 | Gosia Langa Basit<br>TuTh 9:30am - 10:45am<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 60)<br>VMH 1308 |
| 0501 | Gosia Langa Basit<br>TuTh 11:00am - 12:15pm<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 60)<br>VMH 1308 |
| 0601 | Robert Sheehan<br>TuTh 3:30pm - 4:45pm<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 60)<br>VMH 1407 |
| 0701 | Gregory Marr<br>MW 11:00am - 12:15pm<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 60)<br>VMH 1407 |
| 0801 | Jesse Kellner<br>W 7:00pm - 9:40pm<br>*Restricted to BMGT majors with 53 credit hours completed.* | Seats (Total: 60)<br>VMH 1330 |
| ESG1 | Robert Sheehan<br>MW 11:00am - 12:15pm<br>*Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.* | Seats (Total: 60)<br>BLD4 5332 |

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|---|---|---|
| ESG2 | Robert Sheehan<br>MW 12:30pm - 1:45pm | Seats (Total: 60)<br>BLD4 5332 |
| | *Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.* | |

**BMGT364N** **Managing People and Organizations**

*An introduction to selected aspects of human behavior in organizations generally known as organizational behavior (OB). This course is designed to help students develop systematic and fundamental understanding of people and their behaviors in organizations, as well as useful abilities and skills required to effectively and ethically manage various individual, interpersonal, group, and organization-level processes.*

Restricted to agricultural and resource economics (0111C) and dietetics (1307D) majors with 53 credit hours completed.

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|---|---|---|
| 0101 | Roy Thomason<br>MW 12:30pm - 1:45pm<br>Class time/details on ELMs | Seats (Total: 3)<br>VMH 1330<br>ONLINE |

**BMGT365** **Entrepreneurial Finance and Private Equity**

*Prerequisite: BMGT461 or BMGT361. Restriction: Junior standing or higher. Credit only granted for: BMGT365, ENES466, SMLP471 or HLMN471.*

*Studies venture capital and private equity using a combination of cases, lectures and guest speakers. Addresses how venture capitalists provide capital to start-up firms in growing industries and how private equity markets provide capital to help established medium-sized firms (often family businesses) grow and restructure. Focuses on how financial, legal, and economic issues are dealt with in the financial contracts between venture capitalists and their limited partners and between capitalists (or other private equity investors) and the firms in which they invest.*

Restricted to BMGT majors with 72 credit hours completed and Innovation and Entrepreneurship (#BU03) minors.

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|---|---|---|
| 0101 | Andrew Sherman<br>W 5:00pm - 7:40pm | Seats (Total: 40)<br>VMH 1311 |

**BMGT366** **Growth Strategies for Emerging Companies**

*Prerequisite: BMGT461 or BMGT361. Restriction: Junior standing or higher.*

*Offers practical management tools that are needed to build a new venture into a significant enterprise. The competencies, strategies and structures of successful high performance businesses are studied through cases, videos and guest lecturers. Topics include leadership, internal growth strategies, merger, acquisition and franchising.*

Restricted to Innovation and Entrepreneurship (#BU03) minors and Management (0503G) majors.

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|---|---|---|
| 0101 | David Kirsch<br>TuTh 9:30am - 10:45am | Seats (Total: 45)<br>VMH 1412 |
| ESG1 | Steven Freishtat<br>TuTh 12:30pm - 1:45pm<br>*Restricted to Senior BMGT-Shady Grove students majoring in Management. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.* | Seats (Total: 45)<br>BLD2 3032 |

**BMGT367** **Career Search Strategies in Business**

*Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.*

*An overview and opportunity to practice job search skills critical to obtaining internships and full-time positions. Course will cover strategies for exploring career options, preparing job search materials, development of job search skills such as interviewing and networking. Students are encouraged to take this course in the sophomore or junior year.*

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|---|---|---|
| 0101 | Erin Saddler, Tyrone Clifton<br>M 5:00pm - 5:50pm<br>*Restricted to BMGT students with 45 credit hours completed.* | Seats (Total: 57)<br>VMH 1212 |
| 0201 | Adam VanWagner, Erin Saddler, Rahman Anjorin<br>Tu 5:00pm - 5:50pm<br>*Restricted to BMGT students with 45 credit hours completed.* | Seats (Total: 57)<br>VMH 1303 |
| 0301 | Erin Saddler, Susan Powell<br>W 5:00pm - 5:50pm<br>*Restricted to BMGT students with 45 credit hours completed.* | Seats (Total: 57)<br>VMH 1212 |
| 0401 | Erin Saddler, Tyrone Clifton<br>M 6:00pm - 6:50pm<br>*Restricted to BMGT students with 45 credit hours completed.* | Seats (Total: 57)<br>VMH 1212 |
| 0501 | Erin Saddler, Allison Hishmeh<br>W 5:00pm - 5:50pm<br>*Restricted to BMGT students with 45 credit hours completed.* | Seats (Total: 57)<br>VMH 1303 |

| | | |
|---|---|---|
| 0601 | Erin Saddler, Adam VanWagner<br>Tu 6:00pm - 6:50pm<br>*Restricted to BMGT students with 45 credit hours completed.* | Seats (Total: 57)<br>VMH 1303 |
| ESG1 | Erin Saddler, Sadie Edmonds<br>W 3:00pm - 3:50pm<br>*Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.* | Seats (Total: 50)<br>BLD2 2032 |
| ESG2 | Dina Broydo, Erin Saddler<br>W 3:00pm - 3:50pm<br>*Restricted to BMGT-Shady Grove Juniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.* | Seats (Total: 45)<br>BLD2 3032 |

**BMGT370** **Introduction to Transportation**

*An overview of the transportation field with an emphasis on freight movements from the perspective of both providers of capacity and users of freight services. Examines the characteristics of the freight modes and the role of each mode as a major component of logistics and supply chain management. Explores the economics, energy use, and finances of each mode as well as the impact of government policies on each mode's future. Discussion of infrastructure and capacity needs of the transportation system and its ability to support the economy.*

Restricted to BMGT majors with 53 credit hours completed.

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|---|---|---|
| 0101 | Leland Gardner<br>TuTh 8:00am - 9:15am | Seats (Total: 32)<br>VMH 2511 |
| 0201 | Leland Gardner<br>TuTh 9:30am - 10:45am | Seats (Total: 32)<br>VMH 2511 |

**BMGT372** **Introduction to Logistics and Supply Chain Management**

*Credit only granted for: BMGT375 or BMGT372.*

*Supply chain management involves the coordination of suppliers, manufacturers, distributors, and retailers to ensure that products and services are available to the final consumer in a timely and cost-effective fashion. Logistics management is the subset of supply chain management dealing with the physical flows of product and includes such activities as transportation management, warehousing, materials handling, inventory management, and order fulfillment. Attention is paid to the logistics cost trade-offs within the firm and between members of the supply chain.*

Restricted to BMGT majors.

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|---|---|---|
| 0101 | Niratcha Tungtisanont<br>TuTh 11:00am - 12:15pm | Seats (Total: 35)<br>VMH 2511 |
| 0201 | Niratcha Tungtisanont<br>TuTh 12:30pm - 1:45pm | Seats (Total: 35)<br>VMH 2511 |
| 0301 | Leland Gardner<br>TuTh 11:00am - 12:15pm | Seats (Total: 35)<br>SQH 1101 |
| 0401 | Niratcha Tungtisanont<br>TuTh 2:00pm - 3:15pm | Seats (Total: 35)<br>VMH 2511 |

**BMGT375** **Supply Chain Management for Non Business Majors**

*Restriction: Must not have completed BMGT372; and must not be a major in the Robert H. Smith School of Business. Credit only granted for: BMGT375 or BMGT372. Additional information: Course does not apply to a Smith School degree. Course may be substituted by BMGT372 for General Business minor students only.*

*Examines management decision-making in the design, implementation and coordination of a firm's supply chain activities. Topics include transportation management, warehousing, materials handling, inventory management, and order fulfillment.*

Restricted to General Business Minors (#BU02)

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|---|---|---|
| 0101 | Leland Gardner<br>Class time/details on ELMs | Seats (Total: 180)<br>ONLINE |

**BMGT380** **Business Law I**

*Legal aspects of business relationships. Examination of torts and business crimes, contracts and agency. The law of personal property and bailment relationships. Survey of public policy issues.*

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|---|---|---|
| 0101 | T Anenson<br>MW 2:00pm - 3:15pm<br>Class time/details on ELMs<br>*Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT380N.* | Seats (Total: 59)<br>VMH 1412<br>ONLINE |
| 0201 | T Anenson<br>MW 3:30pm - 4:45pm<br>Class time/details on ELMs<br>*Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT380N.* | Seats (Total: 60)<br>VMH 1412<br>ONLINE |

| | | |
|---|---|---|
| 0301 | T Anenson<br>MW 5:00pm - 6:15pm<br>Class time/details on ELMs | Seats (Total: 60)<br>VMH 1412<br>ONLINE |
| | *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT380N.* | |
| 0401 | Justin Reyna<br>TuTh 9:30am - 10:45am | Seats (Total: 60)<br>VMH 1505 |
| | *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT380N.* | |
| 0501 | Justin Reyna<br>TuTh 11:00am - 12:15pm | Seats (Total: 60)<br>VMH 1505 |
| | *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT380N.* | |
| 0601 | Justin Reyna<br>TuTh 2:00pm - 3:15pm | Seats (Total: 60)<br>VMH 1330 |
| | *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT380N.* | |
| 0701 | Kevin McGarry<br>W 7:00pm - 9:40pm | Seats (Total: 60)<br>VMH 1303 |
| | *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT380N.* | |
| 0801 | Kevin McGarry<br>MW 3:30pm - 4:45pm | Seats (Total: 60)<br>VMH 1308 |
| | *Restricted to BMGT majors with 53 credit hours completed. Other interested students should review their eligibility for BMGT380N.* | |
| ESG1 | Kevin McGarry<br>MW 11:00am - 12:15pm | Seats (Total: 45)<br>BLD2 2032 |
| | *Restricted to BMGT-Shady Grove Seniors. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.* | |
| ESG2 | Kevin McGarry<br>MW 9:30am - 10:45am | Seats (Total: 45)<br>BLD2 2032 |

**BMGT380N Business Law I**

*Legal aspects of business relationships. Examination of torts and business crimes, contracts and agency. The law of personal property and bailment relationships. Survey of public policy issues.*

Restricted to agricultural and resource economics majors (0111C) with 53 credit hours completed.

| | | |
|---|---|---|
| 0101 | T Anenson<br>MW 2:00pm - 3:15pm<br>Class time/details on ELMs | Seats (Total: 1)<br>VMH 1412<br>ONLINE |

**BMGT382** **Marketing and Innovation for Entrepreneurs**

*Restriction: Must not have completed BMGT352. Credit only granted for: BMGT352, BMGT382 or BMGT456. Additional information: Course will not satisfy a Marketing major requirement.*

*Marketing and Innovation are two critically important activities that determine success in any business venture. This course will focus on understanding the fundamentals of marketing and innovation from the perspective of an entrepreneur. At a broad level, we will apply proven marketing frameworks (STP and 4Ps) to effectively deliver innovation in an entrepreneurial context.*

| | | |
|---|---|---|
| 0101 | Yogesh Joshi<br>TuTh 12:30pm - 1:45pm<br>*Restricted to Innovation and Entrepreneurship Minors and non-BMGT majors.* | Seats (Total: 40)<br>VMH 1418 |
| ESG1 | Idil Yaveroglu<br>TuTh 9:30am - 10:45am<br>*Restricted to BMGT-Shady Grove Juniors majoring in Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.* | Seats (Total: 45)<br>BLD4 IV3321 |

**BMGT383** **The Business of Sports**

(Perm req)

*An overview of the history of sports management as a profession, while examining the many essential business principles necessary for effective leadership in the industry.*

For students in the Sports Management Program

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|---|---|---|
| 0101 | Susan Sherburne, Victoria Shay<br>Th 5:00pm - 7:40pm | Seats (Total: 50)<br>VMH 1308 |

**BMGT385** **Operations Management**

*Credit only granted for: BMGT385 or ENME426.*

*Designed to equip the student with analytical tools to make capacity, inventory, quality, and other operational decisions in both manufacturing and service business enterprises. Examines the strategic role the operations function can play and offers techniques that the firm can use for execution using a systems approach. Analyze operational systems to align supply with demand to maximize value for the organization. Covers critical operations analytics concepts and models, including process flowcharting, capacity and bottleneck analysis, waiting line management, inventory management, Six Sigma, and Lean.*

Restricted to BMGT majors and Business Analytics minors with 53 credit hours completed.

| | | |
|---|---|---|
| 0101 | Zhi-Long Chen<br>TuTh 2:00pm - 3:15pm | Seats (Total: 50)<br>VMH 1303 |
| 0201 | Zhi-Long Chen<br>TuTh 3:30pm - 4:45pm | Seats (Total: 50)<br>VMH 1303 |

**BMGT390H** **Designing Innovative Systems**

*Prerequisite: ENES190, BMGT190, ENED290 or BMGT290. Restriction: Must be in the QUEST program. Cross-listed with: ENED390. Credit only granted for: BMGT390, ENES390 or ENED390. Formerly: ENES390.*

*The QUEST systems thinking course challenges students to analyze how processes interact in larger systems. Students will learn how to use process improvement tools and a systems thinking approach to solve problems and design innovative solutions. By drawing upon their multidisciplinary backgrounds, students will be able to understand and reframe problems from multiple perspectives to uncover new solutions.*

Restricted to QUEST program students. Cross-listed with ENES390H.

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|---|---|---|
| 0101 | David Ashley<br>M 5:00pm - 7:40pm | Seats (Total: 60)<br>VMH 1308 |

**BMGT392** **Introduction to International Business Management**

*Prerequisite: ECON200.*

*A study of the domestic and foreign environmental factors affecting the international operations of U.S. business firms. The course also covers the administrative aspects of international marketing, finance and management.*

Restricted to BMGT majors with 53 credit hours completed.

| | | |
|---|---|---|
| 0101 | Wilbur Chung<br>MW 2:00pm - 3:15pm | Seats (Total: 30)<br>VMH 1314 |

| | | |
|---|---|---|
| 0201 | Wilbur Chung | Seats (Total: 30) |
| | MW 3:30pm - 4:45pm | VMH 1314 |

**BMGT395** **Principles of Management for Non Business Majors**

*Restriction: Must not have completed BMGT364; and must not be a major in the Robert H. Smith School of Business. Credit only granted for: BMGT395 or BMGT364. Additional information: Course does not apply to a Smith School degree. Course may be substituted by BMGT364 for General Business minor students only.*

*Introduces concepts related to organization behavior. Topics include leadership, team decision making and management, conflict resolution and negotiations, organizational culture, and organization change. Students will learn how to apply those concepts and theories to understanding and critically analyzing various individual, interpersonal, group, and organizational management processes.*

Restricted to General Business minors (#BU02).

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|---|---|---|
| 0101 | Nicole Coomber | Seats (Total: 200) |
| | Class time/details on ELMs | ONLINE |

**BMGT397** **Mentoring Multidisciplinary Teams**

*Restriction: Restricted to QUEST Program (TQMP) students. Cross-listed with: ENES397. Credit only granted for: BMGT397 or ENES397.*

*QUEST students practice essential skills for mentoring and coaching multidisciplinary teams. These include effective communications, facilitation, conflict resolution, and the ability to motivate. Students will practice these skills as mentors for student teams from BMGT/ENES 190H. In the process, they will strengthen their knowledge of design and quality techniques.*

Restricted to QUEST program students. Cross-listed with ENES397.

| | | |
|---|---|---|
| 0101 | Emily Marks | Seats (Total: 9) |
| | Tu 5:00pm - 7:40pm | ESJ 2101 |

**BMGT398** **Individual Study in Business and Management**

(Perm req)

**Contact department for information to register for this course.**

**BMGT398A** **Individual Study in Business and Management; Internship**

(Perm req)

Restricted to Smith School of Business students. Interested students should contact Erin Fields Saddler (esaddler@rhsmith.umd.edu) for details and permission.

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|---|---|---|
| 0101 | Erin Saddler | Seats (Total: 35) |
| | Contact instructor or department for details. | |

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|---|---|---|
| ESG1 | Erin Saddler<br>Contact instructor or department for details.<br>*Restricted to students at Shady Grove.* | Seats (Total: 10) |

**BMGT398C** **Individual Study in Business and Management; Undergraduate Teaching Scholars Training**

(Perm req)

Restricted to Accounting Teaching Scholars (FPTS).

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|---|---|---|
| 0101 | Progyan Basu<br>Contact instructor or department for details. | Seats (Total: 19) |

**BMGT398D** **Individual Study in Business and Management; Smith Start Mentorship**

(Perm req)

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|---|---|---|
| 0101 | Brandon Rodriguez Torrento, Rachel DiDonna<br>M 5:00pm - 7:40pm | Seats (Total: 36)<br>TWS 0234 |

**BMGT398E** **Individual Study in Business and Management; Leadership Development and Mentorship in Business**

(Perm req)

Restricted to Smith Business Leadership Fellows (SBLF)

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|---|---|---|
| 0101 | Amy Bielicki<br>Tu 5:00pm - 7:40pm | Seats (Total: 10)<br>VMH 1407 |

**BMGT398I** **Individual Study in Business and Management; Information Technology and Business Tranformation (iTBT) Fellows**

Restricted to Information Technology and Business Transformation Fellows.

| | | |
|---|---|---|
| 0101 | Lauren Rhue<br>Th 5:00pm - 7:00pm | Seats (Total: 37)<br>VMH 1518 |

**BMGT398O** **Individual Study in Business and Management; Experiential Learning in Sports Management**

(Perm req)

For students in the Sports Management Program.

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|---|---|---|
| 0101 | Victoria Shay<br>Contact instructor or department for details. | Seats (Total: 20) |

**BMGT399A** **Special Topics in Business and Management; Financial Peer Mentoring**

*Special topics in business and management.*

In this course, students will learn the process of providing financial wellness peer mentoring. We start with fundamentals financial literacy for the purpose of being able to help college students build their own path to financial wellness. As the class progresses, students will learn how to engage with others to provide customized pointers to financial resources.

| | | | |
|---|---|---|---|
| 0101 | Joseph Bailey<br>Th 3:30pm - 6:10pm | Seats (Total: 30)<br>HJP 2217 | |

**BMGT402 Database Systems**

*Recommended: BMGT302. Credit only granted for: INST327 or BMGT402.*

*The fundamentals of database management systems (DBMS), data models, query processing, and data warehouses, and their application in the development of business information systems will be covered. An important goal of this course is to understand the value of information resources and information management challenges within an organization.*

Restricted to Information Systems majors with 60 credits completed and Business Analytics minors with 72 credit hours completed.

| | | | |
|---|---|---|---|
| 0101 | Woei-jyh Lee<br>TuTh 2:00pm - 3:15pm<br>Th 6:00pm - 6:50pm | Seats (Total: 38)<br>VMH 2203<br>VMH 2203 | <br><br>Lab |
| 0201 | Wenying Gu<br>MW 3:30pm - 4:45pm<br>Tu 6:00pm - 6:50pm | Seats (Total: 38)<br>VMH 2203<br>VMH 2203 | <br><br>Lab |
| 0301 | Aseem Baji<br>MW 9:30am - 10:45am<br>Tu 5:00pm - 5:50pm | Seats (Total: 38)<br>VMH 2203<br>VMH 2203 | <br><br>Lab |
| 0401 | John Bono<br>TuTh 8:00am - 9:15am<br>Th 5:00pm - 5:50pm | Seats (Total: 38)<br>VMH 2203<br>VMH 2203 | <br><br>Lab |

**BMGT403 Systems Analysis and Design**

*Prerequisite: BMGT301; or students who have taken courses with comparable content may contact the department. Recommended: BMGT302.*

*Techniques and tools applicable to the analysis and design of computer-based information systems. System life cycle, requirements analysis, logical design of databases and performance evaluation. Emphasis on case studies. Project required that involves the design, analysis and implementation of an information system.*

Restricted to Information System students with 72 credits completed.

| | | |
|---|---|---|
| 0101 | Hassan Ibrahim<br>MW 2:00pm - 3:15pm | Seats (Total: 30)<br>VMH 2203 |
| 0201 | Hassan Ibrahim<br>MW 12:30pm - 1:45pm | Seats (Total: 30)<br>VMH 2203 |
| 0301 | Hassan Ibrahim<br>M 7:00pm - 9:40pm | Seats (Total: 30)<br>VMH 2203 |
| 0401 | Hassan Ibrahim<br>Tu 7:00pm - 9:40pm | Seats (Total: 30)<br>VMH 2203 |
| 0501 | Joseph Drasin<br>MW 8:00am - 9:15am | Seats (Total: 30)<br>VMH 1206 |

**BMGT406** **Developing Applications for the Web and Social Media**

*Prerequisite: BMGT402 and BMGT302. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Credit only granted for: INST377 or BMGT406.*

*The design and development of Web applications and the underlying platforms and standards for Web application development will be covered. It will examine the phenomenon of social media, social networking and crowdsourcing and understand their use within organizations.*

Restricted to Information Systems majors with 60 credits completed and other BMGT majors with 72 credits completed.

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|---|---|---|
| 0101 | Louiqa Raschid<br>MW 3:30pm - 4:45pm | Seats (Total: 24)<br>VMH 3522 |

**BMGT407** **Information Systems Projects**

(Perm req)

*Prerequisite: BMGT402 and BMGT403. Restriction: Senior standing.*

*Senior capstone course for the information systems major. Collected knowledge from the IS courses and application to significant problems of size and complexity. State-of-the-art research ideas and current business and industrial practices in information systems.*

Permission to register for the course is granted to Information Systems majors with 86 credit hours completed who will have completed BMGT407's prerequisites by the start of the Fall semester.

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|---|---|---|
| 0101 | Hassan Ibrahim<br>MW 11:00am - 12:15pm<br>Class time/details on ELMs | Seats (Total: 30)<br>VMH 2203<br>ONLINE |

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|---|---|---|
| 0201 | Hassan Ibrahim<br>W 7:00pm - 9:40pm<br>Class time/details on ELMs | Seats (Total: 30)<br>VMH 2203<br>ONLINE |

**BMGT408E** **Emerging Topics in Information Systems; Big Data and AI using Cloud Computing**

*Selected advanced topics covering emerging developments in the field of decision and information technologies.*

Prerequisite: BMGT302. Restricted to Information Systems majors with 60 credit hours completed and other BMGT majors and Business Analytics minors with 72 credit hours completed.

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|---|---|---|
| 0101 | James McCoy<br>MW 12:30pm - 1:45pm | Seats (Total: 35)<br>SQH 1103 |

**BMGT411** **Ethics and Professionalism in Accounting**

*Prerequisite: BMGT311. Restriction: Must be in Accounting program.*

*Analysis and discussion of issues relating to ethics and professionalism in accounting.*

Restricted to Accounting majors with 86 credit hours completed.

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|---|---|---|
| 0101 | Brian Jefferson<br>TuTh 9:30am - 10:45am | Seats (Total: 40)<br>VMH 1518 |
| 0201 | Brian Jefferson<br>TuTh 11:00am - 12:15pm | Seats (Total: 40)<br>VMH 1518 |

**BMGT417** **Taxation of Corporations, Partnerships and Estates**

*Prerequisite: BMGT221.*

*Federal taxation of corporations using the life-cycle approach-formation, operation, assessment, merger, reorganization and liquidation. Overviews of pass-through entities - partnerships and s-corporations -using the life-cycle approach, and the tax consequences of wealth transfers by individuals - gift and estate taxation. Both tax planning and compliance issues are addressed.*

Restricted to Accounting majors with 84 credit hours completed.

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|---|---|---|
| 0101 | Jeffrey Milton<br>MW 11:00am - 12:15pm | Seats (Total: 45)<br>VMH 1415 |

**BMGT422** **Auditing Theory and Practice**

*Prerequisite: BMGT310; and must have completed or be concurrently enrolled in BMGT311.*

*A study of the independent accountant's attest function, generally accepted auditing standards, compliance and substantive tests and report forms and opinions.*

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|---|---|---|
| 0101 | James McKinney<br>MW 11:00am - 12:15pm<br>*Restricted to Accounting majors.* | Seats (Total: 40)<br>VMH 1518 |
| 0201 | James McKinney<br>MW 12:30pm - 1:45pm<br>*Restricted to Accounting majors.* | Seats (Total: 40)<br>VMH 1518 |
| ESG1 | Patrick McNamee<br>TuTh 11:00am - 12:15pm<br>*Restricted to BMGT-Shady Grove Seniors majoring in Accounting. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.* | Seats (Total: 45)<br>BLD2 3032 |

**BMGT430 Data Modeling in Business**

*Prerequisite: BMGT231 or BMGT230; or permission of BMGT-Robert H. Smith School of Business.*

*Explores the role of statistical models in business analytics to drive managerial decision-making and improve performance through the use of relevant data-motivated examples. Topics include regression models (both simple and multiple regression, as well as logistic regression for binary data), model validation, variable transformation, variable selection, discriminant analysis, and forecasting. These topics are modeled using state-of-the-art data analytics software.*

Restricted to BMGT majors and Business Analytics minors.

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|---|---|---|
| 0101 | Radu Lazar<br>MW 8:00am - 9:15am | Seats (Total: 40)<br>VMH 1303 |
| 0201 | Radu Lazar<br>MW 9:30am - 10:45am | Seats (Total: 40)<br>VMH 1303 |
| 0301 | Radu Lazar<br>MW 12:30pm - 1:45pm | Seats (Total: 40)<br>VMH 1311 |
| 0401 | Radu Lazar<br>MW 2:00pm - 3:15pm | Seats (Total: 40)<br>VMH 1335 |

**BMGT431 Data Analytics**

*Prerequisite: BMGT430.*

*An introduction to the tools and techniques that are central to the analysis of abundant data that is being collected in many forms including web traffic, social network data, and reviews and comments on websites.*

Restricted to Business Analytics minors or OM majors.

| | | |
|---|---|---|
| 0101 | Radu Lazar<br>TuTh 3:30pm - 4:45pm | Seats (Total: 32)<br>VMH 1307 |
| 0201 | Radu Lazar<br>TuTh 5:00pm - 6:15pm | Seats (Total: 32)<br>VMH 1307 |

**BMGT434** **Analytics Consulting: Cases and Projects**

*Prerequisite: BMGT332.*

*This course assumes that students have already been introduced to the concepts and techniques of operations research/business analytics (OR/BA). Published papers, short cases, and projects in OR/BA will be analyzed and discussed in a thoughtful way, taking into account the soft (people-related) issues and the hard (mathematical/optimization) issues.*

Restricted to BMGT majors, QUEST students, and Business Analytics minors with 72 credit hours completed.

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|---|---|---|
| 0101 | Bruce Golden<br>MW 2:00pm - 3:15pm | Seats (Total: 40)<br>VMH 1303 |

**BMGT435** **Business Process Simulation**

*Prerequisite: BMGT332.*

*Covers the methods for computer simulation modeling and analysis of complex systems. Students are assumed to have been introduced to the basic techniques and applications in the field of operations management and business analytics. Course emphasis is on modeling of real-world systems (for example, inventory or queueing systems), implementing simulations in special purpose software, and analyzing simulation results.*

Restricted to BMGT majors or Business Analytics minors with 60 credits completed.

| | | |
|---|---|---|
| 0101 | Sujin Kim<br>TuTh 9:30am - 10:45am | Seats (Total: 45)<br>VMH 1307 |

**BMGT438A** **Special Topics in Operations Management; Applied Quantitative Analysis**

*Selected advanced topics in operations management.*

Course restricted to QUEST students. Cross-listed with ENES489A. Credit granted for BMGT438A or ENES489A.

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|---|---|---|
| 0101 | Maria Bardossy<br>MW 2:00pm - 3:15pm | Seats (Total: 50)<br>VMH 1308 |

**BMGT438V** **Special Topics in Operations Management; Quality Innovations for a Sustainable Future**

*Selected advanced topics in operations management.*

Restriction: Must be a student in the Quest program. Climate change impacts every person on the planet, therefore organizations are incorporating sustainable innovations into their operational models. Leaders will need to navigate the challenges of climate change by making decisions that benefit the environment while adhering to their mission. This course will educate students about the technological advancements, economic impacts, and policy implications related to climate change. Through experiential learning, students will cultivate the mindset necessary to confront the challenges of climate change through quality design and innovation.

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|---|---|---|
| 0101 | Chyanne Nader<br>Th 5:00pm - 7:40pm | Seats (Total: 25)<br>VMH 1407 |

**BMGT440** **Advanced Financial Management**

*Prerequisite: BMGT340.*

*Analysis and discussion of cases and readings relating to financial decisions of the firm. The application of finance concepts to the solution of financial problems is emphasized.*

Restricted to BMGT majors with 68 credit hours completed.

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|---|---|---|
| 0101 | James Seward<br>MW 9:30am - 10:45am | Seats (Total: 50)<br>VMH 1335 |
| 0201 | David Kass<br>TuTh 2:00pm - 3:15pm | Seats (Total: 50)<br>VMH 1335 |
| 0301 | David Kass<br>TuTh 3:30pm - 4:45pm | Seats (Total: 50)<br>VMH 1335 |
| 0401 | James Seward<br>MW 11:00am - 12:15pm | Seats (Total: 50)<br>VMH 1335 |
| 0501 | David Kass<br>TuTh 11:00am - 12:15pm | Seats (Total: 50)<br>VMH 1335 |

**BMGT441** **Fixed Income**

*Prerequisite: BMGT340.*

*Describes important financial instruments which have market values that are sensitive to interest rate movements. Develops tools to analyze interest rate sensitivity and value fixed income securities. Defines and explains the vocabulary of the bond management business.*

Restricted to Finance majors with 72 credit hours completed.

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|---|---|---|
| 0101 | Terrence O'Brien<br>MW 9:30am - 10:45am | Seats (Total: 45)<br>VMH 1418 |
| 0201 | Terrence O'Brien<br>MW 11:00am - 12:15pm | Seats (Total: 45)<br>VMH 1418 |

**BMGT443** **Applied Equity Analysis and Portfolio Management**

*Prerequisite: BMGT343.*

*Study and application of the concepts, methods, models, and empirical findings to the analysis, valuation and selection of securities, especially common stock.*

Restricted to BMGT majors with 84 credit hours completed.

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|---|---|---|
| 0101 | Joseph Perfetti<br>MW 11:00am - 12:15pm | Seats (Total: 48)<br>VMH 3505 |
| 0201 | Joseph Perfetti<br>MW 2:00pm - 3:15pm | Seats (Total: 48)<br>VMH 3505 |
| 0301 | Joseph Perfetti<br>MW 3:30pm - 4:45pm | Seats (Total: 48)<br>VMH 3505 |
| 0401 | Joseph Perfetti<br>MW 12:30pm - 1:45pm | Seats (Total: 48)<br>VMH 3505 |

**BMGT444** **Futures and Options Contracts**

*Prerequisite: BMGT343. Credit only granted for: BMGT444 or MATH424.*

*The institutional features and economic rationale underlying markets in futures and options. Hedging, speculation, structure of futures prices, interest rate futures, efficiency in futures markets and stock and commodity options.*

Restricted to Finance majors with 84 credit hours completed.

| | | |
|---|---|---|
| 0101 | Michael Cichello<br>MW 5:00pm - 6:15pm | Seats (Total: 45)<br>VMH 1307 |
| 0201 | Michael Cichello<br>MW 12:30pm - 1:45pm | Seats (Total: 45)<br>VMH 1415 |

**BMGT445** **Banking and Financial Institutions**

*Prerequisite: BMGT340.  Recommended: ECON330 or BMGT341.*

*Analysis and discussion of cases and readings in commercial bank management. The loan function is emphasized; also the management of liquidity reserves, investments for income and source of funds. Bank objectives, functions, policies, organization, structure, services and regulation are considered.*

Restricted to Finance majors with 84 credit hours completed.

| | | |
|---|---|---|
| 0101 | Jordan Richmond<br>Tu 7:00pm - 9:40pm | Seats (Total: 45)<br>VMH 1303 |
| 0201 | Jordan Richmond<br>W 5:00pm - 7:40pm | Seats (Total: 45)<br>VMH 1335 |

**BMGT446** **International Finance**

*Prerequisite: BMGT340.*

*Financial management from the perspective of the multinational corporation. Topics covered include the organization and functions of foreign exchange and international capital markets, international capital budgeting, financing foreign trade and designing a global financing strategy. Emphasis of the course is on how to manage exchange and political risks while maximizing benefits from global opportunity sets faced by the firm.*

Restricted to Finance and International Business majors with 72 credit hours completed.

| | | |
|---|---|---|
| 0101 | Renhao Jiang<br>TuTh 9:30am - 10:45am | Seats (Total: 45)<br>VMH 1335 |
| 0201 | Vojislav Maksimovic<br>MW 5:00pm - 6:15pm | Seats (Total: 45)<br>VMH 1415 |
| 0301 | Renhao Jiang<br>TuTh 12:30pm - 1:45pm | Seats (Total: 45)<br>VMH 1335 |

**BMGT448X** **Special Topics in Finance; Private Equity Strategy & Execution**

*Selected advanced topics in finance.*

Prerequisite: BMGT340. Restricted to Finance majors with 60 or more credits completed.

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|---|---|---|
| 0101 | Jeron Davis<br>M 7:00pm - 9:40pm | Seats (Total: 45)<br>VMH 1415 |

**BMGT448Y** **Special Topics in Finance; Behavioral Finance**

*Selected advanced topics in finance.*

Restricted to Finance majors with 72 credit hours completed. Prerequisite: BMGT343. Discusses the interwoven effect of human psychology and how it can create unexpected results in financial markets. Focuses not only on how human behavior and decisioning that affects broader markets and transactions, but also delves into the relevancy on a personal financial level. Explores a myriad of real life cases and the consequences of irrational markets and decisioning.

| | | |
|---|---|---|
| 0101 | Jennifer Hsin | Seats (Total: 40) |
| | TuTh 11:00am - 12:15pm | VMH 1314 |

**BMGT449F** **Investment Fund Management: Lemma Senbet Fund**

*The Lemma Senbet Fund is a year-long, advanced finance course available to undergraduate finance majors in their senior year. Ten to twelve students will be selected in the spring of their junior year to participate on the fund, two as portfolio managers and eight to ten as equity analysts. The course provides students with the opportunity to apply what they have learned in finance classes to actual investment decisions, through researching real companies and managing a portfolio of real money.*

Restricted to Lemma Senbet Fund Fellows (FPSF).

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|---|---|---|
| 0101 | Sarah Kroncke | Seats (Total: 12) |
| | TuTh 12:00pm - 1:50pm | VMH 2509 |

**BMGT450** **Integrated Marketing Communications**

*Prerequisite: BMGT350. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.*

*In-depth study of coordinated marketing activities including advertising, sales promotion, Internet marketing, direct marketing and personal selling. Emphasizes strategic planning to effectively use these promotional tools to communicate with customers and meet marketing goals. Blends theory and current practice to provide managerial orientation.*

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|---|---|---|
| ESG1 | Marjorie Bonavia | Seats (Total: 45) |
| | TuTh 9:30am - 10:45am | BLD2 3032 |
| | *Restricted to BMGT-Shady Grove Seniors majoring in Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.* | |

**BMGT453** **Retail Management**

*Prerequisite: BMGT220 and BMGT350. Credit only granted for: BMGT353 or BMGT453. Formerly: BMGT353.*

*Planning and implementing retail marketing strategy. Application to store and non-store (catalog, internet) retailing. Evaluation of how environmental trends in the consumer market, competition, the economy and technology affect retail strategy in the U.S. and global market.*

Restricted to BMGT majors with 60 credit hours completed.

| | | |
|---|---|---|
| 0101 | Jie Zhang<br>TuTh 12:30pm - 1:45pm | Seats (Total: 45)<br>VMH 1412 |
| 0201 | Jie Zhang<br>TuTh 2:00pm - 3:15pm | Seats (Total: 45)<br>VMH 1412 |

**BMGT454** **Global Marketing**

*Prerequisite: BMGT350.*

*Marketing functions from the global executive's viewpoint, including coverage of global marketing policies relating to product adaptation, data collection and analysis, channels of distribution, pricing, communications and cost analysis. Consideration is given to the cultural, legal, financial and organizational aspects of global marketing.*

Restricted to BMGT majors with 72 credit hours completed.

| | | |
|---|---|---|
| 0101 | Kathleen Kelly<br>TuTh 3:30pm - 4:45pm | Seats (Total: 45)<br>VMH 1505 |

**BMGT456** **Customer-Centric Innovation**

*Prerequisite: BMGT350. Credit only granted for: BMGT352, BMGT382 or BMGT456. Formerly: BMGT352.*

*Addresses the management of new products and services with a focus on the innovation process, specifically the development and launching of new products or services: Opportunity Identification, Concept Generation, Design, Testing and Launch.*

Restricted to BMGT majors with 60 credits hours completed.

| | | |
|---|---|---|
| 0101 | Yogesh Joshi<br>TuTh 8:00am - 9:15am | Seats (Total: 45)<br>VMH 1415 |

**BMGT457** **Marketing Policies and Strategies**

*Prerequisite: BMGT350.*

*This capstone course ties together various marketing concepts using the fundamentals of strategic market planning as the framework. Application of these principles is accomplished by analyzing and discussing cases and by playing a marketing strategy computer simulation game. Analysis of current business articles to understand the link between theory and real-world problem solving.*

Restricted to Marketing majors with 100 credit hours completed.

| | | |
|---|---|---|
| 0101 | Dan Goldsmith<br>TuTh 11:00am - 12:15pm | Seats (Total: 40)<br>VMH 1311 |

| | | |
|---|---|---|
| 0201 | Dan Goldsmith | Seats (Total: 40) |
| | TuTh 12:30pm - 1:45pm | VMH 1311 |

**BMGT458A** **Special Topics in Marketing; Design and Innovation in Marketing**

(Perm req)

*Selected advanced topics in marketing.*

| | | |
|---|---|---|
| 0101 | Mary Beth Furst | Seats (Total: 35) |
| | TuTh 3:30pm - 4:45pm | VMH 1518 |
| | *Restricted to students in the Strategic Design and Innovation Fellows program.* | |

**BMGT458B** **Special Topics in Marketing; Design Applications in Marketing and Branding**

(Perm req)

*Selected advanced topics in marketing.*

| | | |
|---|---|---|
| 0101 | Lance Wain | Seats (Total: 35) |
| | M 7:00pm - 9:40pm | VMH 1307 |
| | *Restricted to students in the Strategic Design and Innovation Fellows program.* | |

**BMGT458Q** **Special Topics in Marketing; Computer Graphics Workshop**

*Selected advanced topics in marketing.*

| | | |
|---|---|---|
| 0101 | Elizabeth Bagley | Seats (Total: 26) |
| | W 7:00pm - 9:40pm | ATL 1410 |
| | *Restricted to students in the Strategic Design and Innovation Fellows program.* | |

**BMGT458R** **Special Topics in Marketing; Advanced Computer Graphics Workshop**

*Selected advanced topics in marketing.*

Restricted to students in the Strategic Design and Innovation Fellows program.

| | | |
|---|---|---|
| 0101 | Elizabeth Bagley | Seats (Total: 17) |
| | W 4:00pm - 6:40pm | ATL 1410 |

**BMGT461** **Entrepreneurship**

*Restriction: Must not have completed BMGT361. Credit only granted for: BMGT261, BMGT361, BMGT461, ENES460, SMLP470 or HLMN470.*

*Process of creating new ventures, including evaluating the entrepreneurial team, the opportunity and the financing requirements. Skills, concepts, mental attitudes and knowledge relevant for starting a new business.*

| | | |
|---|---|---|
| 0101 | Sheetal Singh<br>TuTh 3:30pm - 4:45pm | Seats (Total: 25)<br>VMH 1308 |
| | *Restricted to BMGT majors with 72 credit hours completed. Non-majors should register for BMGT 461N.* | |
| ESG1 | Le-Marie Thompson<br>TuTh 2:00pm - 3:15pm | Seats (Total: 45)<br>BLD3 2230 |
| | *Restricted to BMGT-Shady Grove Juniors majoring in Marketing. Other students may request enrollment on a space available basis. UMCP undergraduate BMGT students are not eligible to enroll at Shady Grove.* | |

**BMGT461M** **Entrepreneurship**

*Restriction: Must not have completed BMGT361. Credit only granted for: BMGT261, BMGT361, BMGT461, ENES460, SMLP470 or HLMN470.*

*Process of creating new ventures, including evaluating the entrepreneurial team, the opportunity and the financing requirements. Skills, concepts, mental attitudes and knowledge relevant for starting a new business.*

Restricted to Innovation & Entrepreneurship Minors (#BU03).

| | | |
|---|---|---|
| 0101 | Mike Hoffmeyer<br>TuTh 2:00pm - 3:15pm | Seats (Total: 40)<br>TWS 0201 |

**BMGT461N** **Entrepreneurship**

*Restriction: Must not have completed BMGT361. Credit only granted for: BMGT261, BMGT361, BMGT461, ENES460, SMLP470 or HLMN470.*

*Process of creating new ventures, including evaluating the entrepreneurial team, the opportunity and the financing requirements. Skills, concepts, mental attitudes and knowledge relevant for starting a new business.*

Restricted to non-BMGT majors with 72 credits. Not open to innovation and Entrepreneurship minors.

| | | |
|---|---|---|
| 0101 | Sheetal Singh<br>TuTh 3:30pm - 4:45pm | Seats (Total: 15)<br>VMH 1308 |

**BMGT463** **Cross-cultural Challenges in Business**

*Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.*

*Examines in depth the nature of international cultural value-differences and their behavioral-related effects in the workplace. Topics include decision-making and leadership styles and reactions to various work assignments and reward structures.*

| | | |
|---|---|---|
| 0101 | Debra Shapiro<br>MW 2:00pm - 3:15pm | Seats (Total: 45)<br>VMH 1418 |
| | *Restricted to International Business & Mgmt majors with 72 credits.* | |

**BMGT466** **Global Business Strategy**

*Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.*

*Focuses on the strategic challenges that directly result from and are associated with the globalization of industries and companies. Topics include drivers of industry globalization, difference between global and multi-domestic industry, global expansion strategies, sources of competitive advantage in a global context, and coordination of a company across a global network.*

Restricted to International Business majors and Management majors with 72 credit hours completed.

| | | |
|---|---|---|
| 0101 | Paulo Prochno<br>MW 9:30am - 10:45am | Seats (Total: 42)<br>VMH 2511 |
| 0201 | Paulo Prochno<br>MW 12:30pm - 1:45pm | Seats (Total: 58)<br>VMH 1335 |

**BMGT468A** **Special Topics in Management and Organization; Making Better Business Decisions with Data: An Introduction to Causal Inference**

*Selected advanced topics in management and organization.*

Prerequisite: BMGT230; Course restricted to any BMGT major. The goal of the course is to provide students with a toolkit for linking data analysis and strategic decision making. Even while there is an increasing proliferation of data and analysis tools, making informed predictions about how and when policy decisions will influence performance outcomes is challenging. Making informed and useful predictions requires: a) understanding the basics of data structures, variables, and relationships; b) a nuanced understanding of the limits of statistical analysis as applied to causal reasoning; c) the application of research design solutions for common inferential pitfalls; and d) facility with credible research and reporting practices.

| | | |
|---|---|---|
| 0101 | Evan Starr, David Waguespack<br>TuTh 9:30am - 10:45am | Seats (Total: 30)<br>VMH 1311 |

**BMGT468G** **Special Topics in Management and Organization; The Value Creation Challenge**

*Selected advanced topics in management and organization.*

Visit this link for more information.

| | | |
|---|---|---|
| 0101 | Oliver Schlake<br>W 5:00pm - 7:40pm | Seats (Total: 12)<br>VMH 3330H |
| | *Restricted to BMGT majors with 30 credit hours completed.* | |

**BMGT468R** **Special Topics in Management and Organization; Fearless Founders: New Venture Practicum**

(Perm req)

*Selected advanced topics in management and organization.*

| | | |
|---|---|---|
| 0101 | Le-Marie Thompson<br>M 5:00pm - 7:40pm | Seats (Total: 25)<br>VMH 1311 |

**BMGT468V** **Special Topics in Management and Organization; Business Models and Methods to Affect Social Change**

*Selected advanced topics in management and organization.*

Restricted to students with 30 or more credits.

| | | |
|---|---|---|
| 0101 | David Kirsch<br>TuTh 2:00pm - 3:15pm | Seats (Total: 35)<br>VMH 1518 |

**BMGT468X** **Special Topics in Management and Organization; The Value Creation Challenge**

*Selected advanced topics in management and organization.*

Visit this link for more information.

| | | |
|---|---|---|
| 0101 | Oliver Schlake<br>W 5:00pm - 7:40pm<br>*Restricted to non-BMGT majors with 30 credit hours completed.* | Seats (Total: 12)<br>VMH 3330H |

**BMGT468Y** **Special Topics in Management and Organization; Entrepreneurial Capitalism Around the World**

*Selected advanced topics in management and organization.*

Restricted to students with 60 credit hours completed.

| | | |
|---|---|---|
| 0101 | Serguey Braguinsky<br>MW 9:30am - 10:45am | Seats (Total: 60)<br>VMH 1308 |

**BMGT468Z** **Special Topics in Management and Organization; Create the Future through Systems Thinking and Design**

*Selected advanced topics in management and organization.*

| | | |
|---|---|---|
| 0101 | Gerald Suarez<br>MW 11:00am - 12:15pm<br>*Restricted to students with 60 credit hours completed.* | Seats (Total: 35)<br>VMH 1308 |

| | | |
|---|---|---|
| 0201 | Gerald Suarez<br>MW 12:30pm - 1:45pm<br>*Restricted to BMGT majors only.* | Seats (Total: 35)<br>VMH 1308 |

**BMGT472** **Purchasing and Inbound Logistics**

*Prerequisite: BMGT372.*

*Analysis of the resupply activities of logistics management, including purchasing policies, transportation planning, and inventory control. Attention is directed toward total cost minimization and the establishment of a sustainable competitive advantage based on procurement.*

Restricted to Supply Chain Management majors only.

| | | |
|---|---|---|
| 0101 | Sining Song<br>MW 2:00pm - 3:15pm | Seats (Total: 35)<br>VMH 2511 |
| 0201 | Sining Song<br>MW 3:30pm - 4:45pm | Seats (Total: 35)<br>VMH 2511 |

**BMGT475** **Supply Chain Strategy and Network Design**

*Prerequisite: BMGT372.*

*Analysis of the strategic aspects of supply chain management. Emphasis on the creation of end-user value through supply chain cost reductions, service improvements or both. Attention is directed toward the enabling role of technology in support of strategy evaluation and implementation.*

Restricted to Supply Chain Management majors (0503T).

| | | |
|---|---|---|
| 0101 | Thomas Corsi<br>MW 9:30am - 10:45am | Seats (Total: 32)<br>VMH 1518 |

**BMGT476** **Technology Applications in Supply Chain Management**

*Prerequisite: BMGT372.*

*An understanding of the role of technology in managing the supply chain. Provides students with hands-on experience in advanced software systems that build on top of enterprise resource planning systems. Major emphasis is placed on demonstrating that these systems result in supply chain cost reductions and service improvements.*

Restricted to Supply Chain Management and Information Systems majors.

| | | |
|---|---|---|
| 0101 | Hongyi Zhang<br>TuTh 11:00am - 12:15pm | Seats (Total: 24)<br>VMH 3522 |

**BMGT477** **International Supply Chain Management**

*The study of the importance of the supply chain management within a global context. Topics covered include: the structure, service, pricing and competitive relationships among international carriers and transport intermediaries as well as documentation, location decisions, international sourcing/distribution and management of inventory throughout the international supply chain.*

Restricted to Supply Chain Management and International Business majors.

| | | |
|---|---|---|
| 0101 | Geoffrey Milsom<br>TuTh 5:00pm - 6:15pm | Seats (Total: 38)<br>VMH 1206 |

**BMGT478G** **Special Topics in Supply Chain Management; Supply Chain Consulting**

*Selected advanced topics in supply chain management.*

Prerequisite: Must have completed or be concurrently enrolled in BMGT372. Restriction: Must be a student with SCM majors (0503T).

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|---|---|---|
| 0101 | Thomas Corsi<br>Tu 6:30pm - 9:10pm | Seats (Total: 23)<br>VMH 1518 |

**BMGT484** **Digital Marketing**

*Prerequisite: BMGT350. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business.*

*Examines the process of developing, implementing, and analyzing strategies for successfully marketing a variety of existing and potential products and services through digital means, including the web, social media, and mobile apps. Both the development and analysis of digital media for marketing will be discussed.*

Restricted to BMGT majors with 60 credit hours completed.

| | | |
|---|---|---|
| 0101 | Cathy Yi Chen<br>TuTh 2:00pm - 3:15pm | Seats (Total: 45)<br>VMH 1415 |
| 0201 | Cathy Yi Chen<br>TuTh 3:30pm - 4:45pm | Seats (Total: 45)<br>VMH 1415 |

**BMGT485** **Project Management**

*Prerequisite: BMGT231 or BMGT230; or students who have taken courses with comparable content may contact the department. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business. Credit only granted for: BMGT485, ENCE320, ENCE325, INST408O or INST453.*

*Modern project management techniques that are used by modern practicing professionals will be covered. Particular attention is given to the management of technology based systems and projects in a business enterprise. The topics covered include: defining project scope, alignment of projects with enterprise strategy, managing project cost, time and risks using tools such as CPM/PERT, and measuring project performance.*

Restricted to Information Systems majors with 60 credit hours completed and BMGT majors & Quest students with 72 credit hours completed.

| | | |
|---|---|---|
| 0101 | Paul Shapiro<br>MW 3:30pm - 4:45pm | Seats (Total: 45)<br>VMH 1335 |
| 0201 | Paul Shapiro<br>MW 12:30pm - 1:45pm | Seats (Total: 45)<br>VMH 1307 |

**BMGT490H** **QUEST Capstone Professional Practicum**

*Prerequisite: ENES390 or BMGT390. Cross-listed with: ENES490. Credit only granted for: BMGT490 or ENES490.*

*The capstone course for the QUEST Honors Program provides students with an opportunity to learn in multidisciplinary teams of business, engineering, and science students in a real-world setting. Companies engage teams of QUEST students with real organizational challenges and dedicate resources to help students address these problems. Student teams must enhance their skills in quality management, process improvement, and systems design and will apply these to add value to a client. In the process, students will improve their teamwork skills.*

Restricted to Quest Program students.

| | | |
|---|---|---|
| 0101 | David Ashley, Maria Bardossy<br>W 5:00pm - 7:40pm<br>Contact instructor or department for details. | Seats (Total: 45)<br>VMH 1308 |

**BMGT491** **Scoping Experiential Learning Projects**

*Prerequisite: BMGT190 or ENES190. Restriction: Restricted to QUEST Program (TQMP) students. Cross-listed with: ENES491. Credit only granted for: BMGT491 or ENES491.*

*QUEST students cultivate relationships with new and current corporate partners and prepare project scopes for QUEST's introductory course, BMGT/ENES 190H, and capstone course, BMGT/ENES 490H. Requires independent work communicating with clients and class visits to a variety of potential project sites.*

Prerequiste: BMGT190H or ENES190H. Restricted to Quest. Cross-listed with ENES491.

| | | |
|---|---|---|
| 0101 | Jessica Roffe<br>Tu 11:00am - 1:00pm<br>Contact instructor or department for details. | Seats (Total: 9)<br>VMH 3330H |

**BMGT495** **Strategic Management**

*A case-based course where students learn to play the role of the "strategic manager" who defines the scope of its business operations and, within the chosen scope, how the firm will compete against rivals. This course focuses on how a firm can both formulate effective business-level and corporate-level strategies to achieve competitive advantage and earn above average profits.*

Restricted to BMGT students with 60 credit hours completed.

| | | |
|---|---|---|
| 0101 | Clarence Wesley<br>MW 9:30am - 10:45am | Seats (Total: 48)<br>VMH 1206 |
| 0201 | Protiti Dastidar<br>MW 11:00am - 12:15pm | Seats (Total: 48)<br>VMH 1206 |
| 0301 | Clarence Wesley<br>MW 12:30pm - 1:45pm | Seats (Total: 48)<br>VMH 1206 |
| 0401 | William Hurst<br>MW 2:00pm - 3:15pm | Seats (Total: 48)<br>VMH 1206 |
| 0501 | William Hurst<br>MW 3:30pm - 4:45pm | Seats (Total: 48)<br>VMH 1418 |
| 0601 | William Hurst<br>MW 5:00pm - 6:15pm | Seats (Total: 48)<br>VMH 1418 |
| 0701 | Waverly Ding<br>TuTh 9:30am - 10:45am | Seats (Total: 48)<br>VMH 1206 |
| 0801 | Vineet Gambhir<br>TuTh 11:00am - 12:15pm<br>Class time/details on ELMs | Seats (Total: 48)<br>VMH 1206<br>ONLINE |
| 0901 | Waverly Ding<br>TuTh 12:30pm - 1:45pm | Seats (Total: 48)<br>VMH 1206 |
| 1001 | Waverly Ding<br>TuTh 2:00pm - 3:15pm | Seats (Total: 48)<br>VMH 1206 |

**BMGT600** **Leadership and Teamwork**

(Perm req)

*Restriction: Permission of BMGT-Robert H. Smith School of Business; or must be in Business and Management (Master's) program. Credit only granted for: BMGT600, BUSI662 or BUSM600.*

*Course examines concepts of team-building and leadership which are critical to managerial success. Topics include leadership, decision making, communication and conflict, work motivation, building effective teams, and organizational change and culture.*

| | | |
|---|---|---|
| 0501 | Sheetal Singh<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 10:00am - 11:50am | Seats (Total: 0)<br><br>VMH 1336 |

**BMGT602** **Introduction to Financial Accounting**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI610, BUAC602, BUFN602, or BMGT602.*

*Overview of financial accounting, periodic financial statements and the financial reporting process. Importance of financial statements as information source for creditors and investors and as a means by which managers can communicate information about their firms.*

| | | |
|---|---|---|
| 0501 | Nick Seybert<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 10:00am - 11:50am<br>Contact instructor or department for details. | Seats (Total: 0)<br><br>VMH 1520 |

**BMGT606** **Data Driven Decision Making**

(Perm req)

*Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI630 or BMGT606.*

*Analytical modeling of business decisions; uncertainty, risk and expected utility; regression modeling to infer relationships among variables.*

| | | |
|---|---|---|
| 0501 | Ashish Kabra<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 10:00am - 11:50am | Seats (Total: 0)<br><br>VMH 1511 |

**BMGT610** **Financial Management**

(Perm req)

*Restriction: Permission of BMGT-Robert H. Smith School of Business; or must be in Business and Management (Master's) program. Credit only granted for: BUSI640, BUFN610, or BMGT610.*

*Focuses on the valuation of the real assets of firms as well as the valuation of stocks and bonds, the primary financial assets in an economy. While details vary, the conceptual foundations of valuation boil down to three themes: time value of money, no-arbitrage, and systematic risk.*

| | | |
|---|---|---|
| 0501 | James Seward<br>**Meets October 21, 2024 - December 10, 2024**<br>MW 4:00pm - 5:50pm | Seats (Total: 0)<br><br>VMH 1202 |

**BMGT612** **Marketing Management**

(Perm req)

*Restriction: Permission of BMGT-Robert H. Smith School of Business; or must be in Business and Management (Master's) program. Credit only granted for: BUSI650 or BMGT612.*

*Analysis of marketing problems and evaluation of specific marketing efforts regarding the organization's products and services, pricing activities, channel selection, and promotion strategies in both domestic and international markets.*

| | | |
|---|---|---|
| 0501 | Judy Frels<br>**Meets October 21, 2024 - December 10, 2024**<br>MW 10:00am - 11:50am | Seats (Total: 0)<br><br>VMH 1333 |

**BMGT758E** **Special Topics in Business and Management; Business Ethics**

*Selected advanced topics in the various fields of graduate study in business.*

| | | |
|---|---|---|
| 0501 | Jennifer Marr<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 12:00pm - 1:50pm | Seats (Total: 55)<br><br>VMH 2202 |

**BMGT758N** **Special Topics in Business and Management; Negotiation and Conflict Management**

(Perm req)

*Selected advanced topics in the various fields of graduate study in business.*

| | | |
|---|---|---|
| 0501 | Rellie Rozin<br>**Meets October 21, 2024 - December 10, 2024**<br>MW 2:00pm - 3:50pm<br>Contact instructor or department for details. | Seats (Total: 0)<br><br>VMH 2202 |

**BMGT758Z** **Special Topics in Business and Management; Sports Sales and Sponsorship**

*Selected advanced topics in the various fields of graduate study in business.*

| | | | |
|---|---|---|---|
| 0501 | Stephen Sclafani<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 2:00pm - 3:50pm | Seats (Total: 50)<br><br>VMH 1202 |

**BMGT759** **Independent Study in Management**

(Perm req)

*Independent study for Masters students in Management.*

| | | |
|---|---|---|
| 0501 | Rellie Rozin<br>**Meets October 16, 2024 - December 9, 2024**<br>Contact instructor or department for details. | Seats (Total: 1) |

**BMGT808R** **Special Topics in Information Systems; Research Seminar in Decision, Operations and Information Technologies**

*Special topics specific to the Information Systems doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Siva Viswanathan<br>Contact instructor or department for details. | Seats (Total: 12) |

**BMGT808X** **Special Topics in Information Systems; Machine Learning for Business Research**

*Special topics specific to the Information Systems doctoral field of study.*

For IS PhD Seminar Students only.

| | | |
|---|---|---|
| 0101 | Kunpeng Zhang<br>**Meets October 21, 2024 - December 10, 2024**<br>Contact instructor or department for details. | Seats (Total: 12) |

**BMGT808Y** **Special Topics in Information Systems; Machine Learning for Applications in Business Research**

*Special topics specific to the Information Systems doctoral field of study.*

For IS PhD Seminar Students only.

| | | |
|---|---|---|
| 0101 | Jessica Clark<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 9:00am - 10:15am | Seats (Total: 12)<br><br>VMH 4534 |

**BMGT818E** **Special Topics in Accounting and Information Assurance; Applied AI for Capital Markets and Disclosure Research**

*Special topics specific to the Accounting and Information Assurance doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Sean Cao | Seats (Total: 12) |
| | Contact instructor or department for details. | |

**BMGT818R** **Special Topics in Accounting and Information Assurance; Workshop in Accounting Research**

*Special topics specific to the Accounting and Information Assurance doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Michael Kimbrough | Seats (Total: 12) |
| | Contact instructor or department for details. | |

**BMGT828** **Independent Study in Business and Management**
**Contact department for information to register for this course.**

**BMGT830** **Operations Research: Linear Programming**

*Prerequisite: MATH240; or students who have taken courses with comparable content may contact the department; or permission of BMGT-Robert H. Smith School of Business.*

*Concepts and applications of linear programming models, theoretical development of the simplex algorithm, and primal-dual problems and theory.*

| | | |
|---|---|---|
| 0101 | Raghu Raghavan | Seats (Total: 12) |
| | TuTh 12:30pm - 1:45pm | VMH 1314 |

**BMGT834** **Operations Research: Probabilistic Models**

*Prerequisite: MATH241; and (STAT400; or students who have taken courses with comparable content may contact the department). Or permission of BMGT-Robert H. Smith School of Business.*

*Theoretical foundations for the construction, optimization, and applications of probabilistic models. Queueing theory, inventory theory, Markov processes, renewal theory, and stochastic linear programming.*

| | | |
|---|---|---|
| 0101 | Michael Fu | Seats (Total: 12) |
| | Th 9:00am - 11:40am | VMH 4335 |

**BMGT838R** **Special Topics in Operations Management/Management Science; Research Seminar in Decision, Operations and Information Technologies**

*Special topics specific to the Operations Management/Management Science doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Zhi-Long Chen | Seats (Total: 12) |
| | Contact instructor or department for details. | |

**BMGT840** **Seminar in Financial Theory**

*Prerequisite: Permission of BMGT-Robert H. Smith School of Business.*

*Seminar in selected classic and current theoretical and empirical research in the foundations of finance.*

| | | |
|---|---|---|
| 0101 | Yueyang Han | Seats (Total: 12) |
| | F 2:30pm - 5:30pm | VMH 4534 |

**BMGT848A** **Special Topics in Finance; Financial Research Methods**

*Special topics specific to the Finance doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Vojislav Maksimovic | Seats (Total: 12) |
| | **Meets October 21, 2024 - December 10, 2024** | |
| | Th 7:00pm - 9:40pm | Location: TBA |

**BMGT848F** **Special Topics in Finance; Workshop in Finance Research**

*Special topics specific to the Finance doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Instructor: TBA | Seats (Total: 12) |
| | F 9:00am - 12:00pm | VMH 1330 |

**BMGT858G** **Special Topics in Marketing; Analytical Models**

*Special topics specific to the Marketing doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Bo Zhou | Seats (Total: 12) |
| | **Meets October 21, 2024 - December 10, 2024** | |
| | TuTh 9:00am - 10:45am | VMH 4535 |

**BMGT858R** **Special Topics in Marketing; Marketing Research Seminar**

*Special topics specific to the Marketing doctoral field of study.*

Course restricted to Marketing PhD students only

| | | |
|---|---|---|
| 0101 | Joseph Reiff | Seats (Total: 16) |
| | F 10:30am - 12:15pm | VMH 1412 |

**BMGT868C** **Special Topics in Organizational Behavior/Human Resource Management; Career and Professionalization Workshop in Management and Organization**

*Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.*

| | | |
|---|---|---|
| 0101 | David Kirsch | Seats (Total: 20) |
| | F 12:30pm - 2:00pm | VMH 2509 |

**BMGT868D** **Special Topics in Organizational Behavior/Human Resource Management; Decision Making**

*Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Rellie Rozin<br>**Meets August 26, 2024 - October 14, 2024**<br>W 8:30am - 12:00pm | Seats (Total: 12)<br><br>VMH 3332 |

**BMGT868N** **Special Topics in Organizational Behavior/Human Resource Management; Open Science Workshop**

*Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Gilad Chen<br>**Meets September 9, 2024 - November 4, 2024**<br>M 1:00pm - 4:00pm | Seats (Total: 12)<br><br>VMH 2509 |

**BMGT868P** **Special Topics in Organizational Behavior/Human Resource Management; Organizational Behavior and Human Resource Management Presentations**

*Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Jennifer Marr<br>W 1:00pm - 2:30pm | Seats (Total: 10)<br>VMH 2509 |

**BMGT868R** **Special Topics in Organizational Behavior/Human Resource Management; OBHR Foundations**

*Special topics specific to the Organizational Behavior/Human Resource Management doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Subrahmaniam Tangirala<br>**Meets October 21, 2024 - December 10, 2024**<br>M 9:00am - 12:30pm | Seats (Total: 12)<br><br>VMH 2509 |

**BMGT878C** **Special Topics in Strategic Management and Entrepreneurship; Cross Disciplinary Workshop**

*Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Instructor: TBA<br>Th 11:00am - 12:30pm | Seats (Total: 12)<br>VMH 3330H |

**BMGT878M** **Special Topics in Strategic Management and Entrepreneurship; Formal Models of Entrepreneurship and Innovation**

*Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Serguey Braguinsky<br>**Meets October 21, 2024 - December 10, 2024**<br>W 2:00pm - 5:15pm | Seats (Total: 12)<br><br>VMH 4534 |

**BMGT878P** **Special Topics in Strategic Management and Entrepreneurship; Strategy and Entrepreneurship PhD Presentations**

*Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Brent Goldfarb, Waverly Ding<br>Th 9:15am - 10:45am | Seats (Total: 12)<br>VMH 3330H |

**BMGT878R** **Special Topics in Strategic Management and Entrepreneurship; Strategy and Entrepreneurship Research Design**

*Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.*

| | | |
|---|---|---|
| 0101 | David Waguespack<br>**Meets October 21, 2024 - December 10, 2024**<br>M 1:00pm - 4:00pm | Seats (Total: 12)<br><br>VMH 3330H |

**BMGT878Y** **Special Topics in Strategic Management and Entrepreneurship; Best Methods**

*Special topics specific to the Strategic Management and Entrepreneurship doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Evan Starr, Brent Goldfarb<br>W 9:00am - 12:30pm | Seats (Total: 12)<br>VMH 4534 |

**BMGT888A** **Special Topics in Supply Chain Management; Research Seminar in Sustainable Supply Chains and Operations Management**

*Special topics specific to the Supply Chain Management doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Sining Song<br>Tu 2:00pm - 5:00pm | Seats (Total: 12)<br>VMH 4534 |

**BMGT888B** **Special Topics in Supply Chain Management; Economics of International Business**

*Special topics specific to the Supply Chain Management doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Wilbur Chung<br>**Meets August 26, 2024 - October 14, 2024**<br>M 9:00am - 12:30pm | Seats (Total: 12)<br><br>VMH 3332 |

**BMGT888W** **Special Topics in Supply Chain Management; Workshop in Supply Chain Management**

*Special topics specific to the Supply Chain Management doctoral field of study.*

| | | |
|---|---|---|
| 0101 | Sining Song | Seats (Total: 12) |
| | F 12:00pm - 3:00pm | VMH 4535 |

**BMGT898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**BMGT899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# BMSO Online Business MS Programs Fall 2024

**BMSO600** **Data, Models and Decisions**

*Prerequisite: Permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in an online Business Master of Science program; or permission of BMGT-Robert H. Smith School of Business.*

*The field of data analytics is a very vibrant and broad field. The amount of data available and computing power have exploded in recent years. There is an increasing demand for business analysts who can select and apply the appropriate methods and interpret the results within the context of the problem. The goal of this course is to learn methods for exploring data and building models with the purpose of supporting data-driven decision making. The content of the course can be grouped as follows: Data Exploration, Probability, Confidence Interval Estimation, Hypothesis Testing and Regression Analysis. The focus will be on exploring realistic business scenarios, analyzing datasets using the appropriate analytical techniques, interpreting the analytic output within the context of the business scenario and translating the statistical results into actionable insights.*

| | | |
|---|---|---|
| WN01 | Maria Bardossy | Seats (Total: 0) |
| | **Meets August 26, 2024 - December 9, 2024** | |
| | Tu 7:00pm - 8:30pm | ONLINE |
| | Class time/details on ELMs | ONLINE |

**BMSO601** **Database Management Systems**

*Prerequisite: Permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in an online Business Master of Science program; or permission of BMGT-Robert H. Smith School of Business.*

*The fundamentals of managing data and information within an organization, including enterprise level platforms and tools for data driven analytics. Includes processes for acquiring and cleaning data, storing data, making it available for analytics, visualizing output, and archiving the data for long term use. Involves computational thinking, covers significant theoretical material on data models and queries, and teaches several different analytics and programming tools.*

| | | |
|---|---|---|
| WN01 | John Bono<br>**Meets August 26, 2024 - December 9, 2024**<br>M 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 0)<br><br><br>ONLINE<br>ONLINE |

**BMSO758A** **Special Topics in Business; Social Media and Web Analytics**

*Selected advanced topics in the various fields of graduate study in business.*

| | | |
|---|---|---|
| WN01 | Michael Trusov<br>M 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 0)<br>ONLINE<br>ONLINE |

**BMSO758E** **Special Topics in Business; Advanced Marketing Analytics**

*Selected advanced topics in the various fields of graduate study in business.*

| | | |
|---|---|---|
| WN01 | Michel Wedel<br>**Meets October 21, 2024 - December 10, 2024**<br>Th 8:45am - 10:15pm<br>Class time/details on ELMs | Seats (Total: 60)<br><br><br>ONLINE<br>ONLINE |

**BMSO758P** **Special Topics in Business; Data Processing and Analysis in Python**

*Selected advanced topics in the various fields of graduate study in business.*

Cross-listed with BDBA808P. Credit only granted for BMSO758P or BDBA808P.

| | | |
|---|---|---|
| WN01 | John Bono<br>**Meets August 26, 2024 - December 9, 2024**<br>Th 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 0)<br><br><br>ONLINE<br>ONLINE |

**BMSO758Q** **Special Topics in Business; Big Data and Artificial Intelligence for Business**

*Selected advanced topics in the various fields of graduate study in business.*

Cross-listed with BDBA804. Credit only granted for BDBA804 or BMSO758Q.

| | | |
|---|---|---|
| WN01 | Kunpeng Zhang<br>Tu 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 0)<br>ONLINE<br>ONLINE |

**BMSO758V** **Special Topics in Business; Data Visualization**

*Selected advanced topics in the various fields of graduate study in business.*

Cross-listed with BDBA808E. Credit only granted for BDBA808E or BMSO758V.

| | | |
|---|---|---|
| WN01 | Bharti Motwani | Seats (Total: 0) |
| | **Meets August 26, 2024 - December 9, 2024** | |
| | M 7:00pm - 8:30pm | ONLINE |
| | Class time/details on ELMs | ONLINE |

**BMSO759** **Independent Study in Business**

(Perm req)

*Independent study for Masters students in Business.*

| | | |
|---|---|---|
| WM01 | Rellie Rozin | Seats (Total: 5) |
| | **Meets October 16, 2024 - December 9, 2024** | |
| | Contact instructor or department for details. | |

**BMSO778A** **Special Topics in Business; Financial Accounting**

*Selected advanced topics in the various fields of graduate study in business.*

Asynchronous with required Live Tutorial.

| | | |
|---|---|---|
| WM01 | Progyan Basu | Seats (Total: 0) |
| | **Meets August 26, 2024 - October 14, 2024** | |
| | M 7:00pm - 8:00pm | ONLINE |
| | Class time/details on ELMs | ONLINE |

**BMSO778C** **Special Topics in Business; Career Coaching and Development**

*Selected advanced topics in the various fields of graduate study in business.*

| | | |
|---|---|---|
| WM01 | Sarah Wolek | Seats (Total: 0) |
| | **Meets October 21, 2024 - December 9, 2024** | |
| | Class time/details on ELMs | ONLINE |

**BMSO778D** **Special Topics in Business; Data Driven Decision Making**

*Selected advanced topics in the various fields of graduate study in business.*

Asynchronous with required Live Tutorial.

| | | |
|---|---|---|
| WM01 | Alan Briggs | Seats (Total: 0) |
| | **Meets October 21, 2024 - December 10, 2024** | |
| | Th 7:00pm - 8:00pm | ONLINE |
| | Class time/details on ELMs | ONLINE |

**BMSO778F** **Special Topics in Business; Financial Management**

*Selected advanced topics in the various fields of graduate study in business.*

Asynchronous with required Live Tutorial.

| | | |
|---|---|---|
| WM01 | Susan White | Seats (Total: 0) |
| | **Meets October 21, 2024 - December 10, 2024** | |
| | Tu 7:00pm - 8:00pm | ONLINE |
| | Class time/details on ELMs | ONLINE |

**BMSO778L** **Special Topics in Business; Leadership and Teamwork**

*Selected advanced topics in the various fields of graduate study in business.*

| | | |
|---|---|---|
| WM01 | Roy Thomason | Seats (Total: 0) |
| | **Meets August 26, 2024 - October 14, 2024** | |
| | Class time/details on ELMs | ONLINE |

**BMSO778M** **Special Topics in Business; Marketing Management**

*Selected advanced topics in the various fields of graduate study in business.*

| | | |
|---|---|---|
| WM01 | Mary Beth Furst | Seats (Total: 0) |
| | **Meets October 21, 2024 - December 10, 2024** | |
| | Class time/details on ELMs | ONLINE |

**BMSO778N** **Special Topics in Business; Negotiation and Conflict Management**

*Selected advanced topics in the various fields of graduate study in business.*

| | | |
|---|---|---|
| WM01 | Gosia Langa Basit | Seats (Total: 0) |
| | **Meets August 26, 2024 - October 14, 2024** | |
| | Tu 7:00pm - 8:30pm | ONLINE |
| | Class time/details on ELMs | ONLINE |

**BSCI126** **Pollinators in Crisis**

*How are pollinators threatened by climate change, habitat destruction, and human interaction, and what are some ways to support and protect them? We will dissect the pollinator crisis, and in the process learn about insects, about the interaction of organisms in complex ecosystems, and about the human-nature interface. Students will work in groups that specialize in an aspect of pollinator biology and their challenges. Instruction will target methods for collecting information, interpretation of scientific information and the professional presentation of findings.*

(Sponsoring Dept.: ENTM). Not acceptable for credit for any Biological Sciences major.

| | | | |
|---|---|---|---|
| 0101 | David Hawthorne<br>TuTh 2:00pm - 3:15pm<br>Tu 3:30pm - 4:20pm | Seats (Total: 20)<br>PLS 1140<br>PLS 1162 | <br><br>Discussion |
| 0102 | David Hawthorne<br>TuTh 2:00pm - 3:15pm<br>Tu 4:30pm - 5:20pm | Seats (Total: 20)<br>PLS 1140<br>PLS 1162 | <br><br>Discussion |
| 0103 | David Hawthorne<br>TuTh 2:00pm - 3:15pm<br>Th 3:30pm - 4:20pm | Seats (Total: 20)<br>PLS 1140<br>PLS 1162 | <br><br>Discussion |
| 0104 | David Hawthorne<br>TuTh 2:00pm - 3:15pm<br>Th 4:30pm - 5:20pm | Seats (Total: 20)<br>PLS 1140<br>PLS 1162 | <br><br>Discussion |

**BSCI135** **Amazing Green: Plants that Transformed the World**

*In what profound ways have plants changed humanity and the world we live in today? An interactive way to learn about plants and science, focusing on how plants have changed human history, the biology of their growth, and the science behind their use.*

(Sponsoring Dept.: CBMG). Students must pay a $40.00 laboratory materials fee. Not acceptable for credit for any Biological Sciences major.

| | | | |
|---|---|---|---|
| 0101 | Edgar Moctezuma<br>TuTh 9:30am - 10:45am<br>M 12:30pm - 2:30pm | Seats (Total: 24)<br>HJP 0226<br>HJP 3237 | <br><br>Lab |
| 0102 | Edgar Moctezuma<br>TuTh 9:30am - 10:45am<br>Tu 12:00pm - 2:00pm | Seats (Total: 24)<br>HJP 0226<br>HJP 3237 | <br><br>Lab |

| | | | |
|---|---|---|---|
| 0103 | Edgar Moctezuma<br>TuTh 9:30am - 10:45am<br>W 12:30pm - 2:30pm | Seats (Total: 24)<br>HJP 0226<br>HJP 3237 | <br><br>Lab |
| 0104 | Edgar Moctezuma<br>TuTh 9:30am - 10:45am<br>Th 12:30pm - 2:30pm | Seats (Total: 24)<br>HJP 0226<br>HJP 3237 | <br><br>Lab |
| 0105 | Edgar Moctezuma<br>TuTh 9:30am - 10:45am<br>W 3:00pm - 4:50pm | Seats (Total: 24)<br>HJP 0226<br>HJP 3237 | <br><br>Lab |

**BSCI151** **Beyond Race: Human Biological Diversity**

*Credit only granted for: BSCI189I, BSCI150 or BSCI151. Formerly: BSCI150.*

*Do racial labels have any practical use in understanding human biological diversity? Such categorizations are inextricably linked to racism, including a history of misuse in science going back hundreds of years, yet modern biological research and medicine often include the use of race. At its core, addressing this question requires understanding the balance between genetic and non-genetic factors underlying human diversity. The course will help students make an informed critique of the biological basis of race through the study of topics such as: basic biology, data analysis and experimental design, human evolution and genetics, and biomedical research and health outcomes.*

(Sponsoring Dept.: BIOL).

| | | | |
|---|---|---|---|
| 0101 | Kimberly Paczolt<br>MWF 3:00pm - 3:50pm | Seats (Total: 120)<br>ESJ 1224 | |

**BSCI160** **Principles of Ecology and Evolution**

*Prerequisite: Must have math eligibility of MATH120 or higher. Recommended: For Science majors. Credit only granted for: BSCI106 or BSCI160. Formerly: BSCI106.*

*Basic principles of biology with special emphasis on ecological and evolutionary biology.*

(Sponsoring Dept.: BSCI).

| | | | |
|---|---|---|---|
| 6101 | Magdalene Ngeve<br>TuTh 9:30am - 10:45am | Seats (Total: 120)<br>ESJ 1224 | |
| 6201 | Magdalene Ngeve<br>TuTh 12:30pm - 1:45pm | Seats (Total: 120)<br>ESJ 1224 | |
| 6301 | Leo Shapiro<br>TuTh 2:00pm - 3:15pm | Seats (Total: 120)<br>ESJ 1224 | |

| | | | |
|---|---|---|---|
| 6401 | Emily Bruns<br>MWF 9:00am - 9:50am | Seats (Total: 60)<br>ESJ 1224 | |
| 6501 | Marcia Shofner<br>W 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 120)<br>ONLINE<br>ONLINE | |
| 6701 | Bill Fagan<br>MW 2:00pm - 3:15pm | Seats (Total: 100)<br>JMP 3201 | |

**BSCI161** **Principles of Ecology and Evolution Lab**

*Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: BSCI160. Recommended: For Science majors.*

*Basic laboratory principles of biology with special emphasis on ecological and evolutionary biology.*

(Sponsoring Dept.: BSCI). Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 6104 | Hans Lemke, Michael Keller<br>M 11:00am - 1:50pm | Seats (Total: 24)<br>HJP 3211 | Lab |
| 6105 | Hans Lemke, Michael Keller<br>M 11:00am - 1:50pm | Seats (Total: 24)<br>HJP 3217 | Lab |
| 6110 | Hans Lemke, Michael Keller<br>M 5:00pm - 7:50pm | Seats (Total: 24)<br>HJP 3211 | Lab |
| 6111 | Michael Keller, Hans Lemke<br>M 5:00pm - 7:50pm<br>*This section is restricted to BioFire students.* | Seats (Total: 24)<br>HJP 3217 | Lab |
| 6201 | Hans Lemke, Michael Keller<br>Tu 8:00am - 10:50am | Seats (Total: 24)<br>HJP 3211 | Lab |
| 6204 | Hans Lemke, Michael Keller<br>Tu 11:00am - 1:50pm | Seats (Total: 24)<br>HJP 3211 | Lab |
| 6205 | Hans Lemke, Michael Keller<br>Tu 11:00am - 1:50pm | Seats (Total: 24)<br>HJP 3217 | Lab |
| 6211 | Michael Keller, Hans Lemke<br>Tu 5:00pm - 7:50pm | Seats (Total: 24)<br>HJP 3217 | Lab |

| | | | |
|---|---|---|---|
| 6302 | Hans Lemke, Michael Keller<br>W 8:00am - 10:50am | Seats (Total: 24)<br>HJP 3217 | Lab |
| 6304 | Michael Keller, Hans Lemke<br>W 11:00am - 1:50pm | Seats (Total: 24)<br>HJP 3211 | Lab |
| 6305 | Michael Keller, Hans Lemke<br>W 11:00am - 1:50pm | Seats (Total: 24)<br>HJP 3217 | Lab |
| 6307 | Hans Lemke, Michael Keller<br>W 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 3211 | Lab |
| 6311 | Michael Keller, Hans Lemke<br>W 5:00pm - 7:50pm | Seats (Total: 24)<br>HJP 3217 | Lab |
| 6401 | Hans Lemke, Michael Keller<br>Th 8:00am - 10:50am | Seats (Total: 24)<br>HJP 3211 | Lab |
| 6405 | Hans Lemke, Michael Keller<br>Th 11:00am - 1:50pm | Seats (Total: 24)<br>HJP 3217 | Lab |
| 6408 | Michael Keller, Hans Lemke<br>Th 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 3217 | Lab |
| 6410 | Hans Lemke, Michael Keller<br>Th 6:00pm - 8:50pm | Seats (Total: 24)<br>HJP 3211 | Lab |

**BSCI161C** **Principles of Ecology and Evolution Lab**

*Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: BSCI160. Recommended: For Science majors.*

*Basic laboratory principles of biology with special emphasis on ecological and evolutionary biology.*

Restricted to new freshmen and new transfer students in Biological Science or Neuroscience. (Sponsoring Dept.: BSCI). Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 6108 | Hans Lemke, Michael Keller<br>M 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 3217 | Lab |
| 6207 | Hans Lemke, Michael Keller<br>Tu 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 3211 | Lab |

| | | | |
|---|---|---|---|
| 6210 | Hans Lemke, Michael Keller<br>Tu 5:00pm - 7:50pm | Seats (Total: 24)<br>HJP 3211 | Lab |
| 6308 | Michael Keller, Hans Lemke<br>W 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 3217 | Lab |
| 6404 | Michael Keller, Hans Lemke<br>Th 11:00am - 1:50pm | Seats (Total: 24)<br>HJP 3211 | Lab |
| 6407 | Michael Keller, Hans Lemke<br>Th 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 3211 | Lab |

**BSCI161S** **Principles of Ecology and Evolution Lab**

*Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: BSCI160. Recommended: For Science majors.*

*Basic laboratory principles of biology with special emphasis on ecological and evolutionary biology.*

Restricted to College Park Scholars - Life Sciences. (Sponsoring Dept.: BSCI). Students must pay a $40 laboratory materials fee.

| | | | |
|---|---|---|---|
| 6107 | Hans Lemke, Michael Keller<br>M 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 3211 | Lab |
| 6208 | Hans Lemke, Michael Keller<br>Tu 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 3217 | Lab |
| 6411 | Hans Lemke, Michael Keller<br>Th 5:00pm - 7:50pm | Seats (Total: 24)<br>HJP 3217 | Lab |

**BSCI170** **Principles of Molecular & Cellular Biology**

*Prerequisite: Must have math eligibility of MATH120 or higher. Recommended: For Science majors. Credit only granted for: BSCI105 or BSCI170. Formerly: BSCI105.*

*Basic principles of biology with special emphasis on cellular and molecular biology.*

(Sponsoring Dept.: BSCI).

| | | | |
|---|---|---|---|
| 0101 | Swarna Mohan<br>MWF 9:00am - 9:50am | Seats (Total: 130)<br>ESJ 2204 | |
| 0201 | Chan Lin<br>MWF 11:00am - 11:50am | Seats (Total: 155)<br>ESJ 1224 | |

| | | | |
|---|---|---|---|
| 0301 | Michael Keller<br>MWF 12:00pm - 12:50pm | Seats (Total: 155)<br>ESJ 1224 | |
| 0401 | Ji Young Choi<br>TuTh 2:00pm - 3:15pm | Seats (Total: 140)<br>ESJ 2204 | |
| FC01 | Michael Keller<br>MW 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection* | Seats (Total: 115)<br>ESJ 2204 | |
| SEF1 | James Sniezek<br>Tu 6:00pm - 8:50pm<br>*Must be in the Science in the Evening (SIE) program.* | Seats (Total: 24)<br>PLS 1130 | |

**BSCI171** **Principles of Molecular & Cellular Biology Laboratory**

*Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: BSCI170. Recommended: For Science majors.*

*Basic laboratory principles of biology with special emphasis on cellular and molecular biology.*

(Sponsoring Dept.: BSCI). Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 1021 | Swarna Mohan<br>M 11:00am - 1:50pm | Seats (Total: 24)<br>HJP 1236 | Lab |
| 1022 | Swarna Mohan<br>M 11:00am - 1:50pm | Seats (Total: 24)<br>HJP 1226 | Lab |
| 1031 | Swarna Mohan<br>M 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 1236 | Lab |
| 1032 | Swarna Mohan<br>M 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 1226 | Lab |
| 1033 | Swarna Mohan<br>M 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 1235 | Lab |
| 1034 | Swarna Mohan<br>M 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 1229 | Lab |
| 2021 | Swarna Mohan<br>Tu 11:00am - 1:50pm | Seats (Total: 24)<br>HJP 1236 | Lab |

| | | | |
|---|---|---|---|
| 2022 | Swarna Mohan<br>Tu 11:00am - 1:50pm | Seats (Total: 24)<br>HJP 1226 | Lab |
| 2023 | Swarna Mohan<br>Tu 11:00am - 1:50pm | Seats (Total: 24)<br>HJP 1235 | Lab |
| 2031 | Swarna Mohan<br>Tu 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 1236 | Lab |
| 2032 | Swarna Mohan<br>Tu 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 1226 | Lab |
| 2033 | Swarna Mohan<br>Tu 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 1235 | Lab |
| 3021 | Swarna Mohan<br>W 11:00am - 1:50pm | Seats (Total: 24)<br>HJP 1236 | Lab |
| 3022 | Swarna Mohan<br>W 11:00am - 1:50pm | Seats (Total: 24)<br>HJP 1226 | Lab |
| 3031 | Swarna Mohan<br>W 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 1236 | Lab |
| 3032 | Swarna Mohan<br>W 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 1226 | Lab |
| 3033 | Swarna Mohan<br>W 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 1235 | Lab |
| 3041 | Swarna Mohan<br>W 6:00pm - 8:50pm | Seats (Total: 24)<br>HJP 1236 | Lab |
| 4021 | Swarna Mohan<br>Th 11:00am - 1:50pm | Seats (Total: 24)<br>HJP 1236 | Lab |
| 4022 | Swarna Mohan<br>Th 11:00am - 1:50pm | Seats (Total: 24)<br>HJP 1226 | Lab |
| 4031 | Swarna Mohan<br>Th 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 1236 | Lab |

| | | | |
|---|---|---|---|
| 4032 | Swarna Mohan<br>Th 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 1226 | Lab |
| 4033 | Swarna Mohan<br>Th 2:00pm - 4:50pm | Seats (Total: 24)<br>HJP 1235 | Lab |
| 4041 | Swarna Mohan<br>Th 6:00pm - 8:50pm | Seats (Total: 24)<br>HJP 1236 | Lab |
| FC1M | Swarna Mohan<br>M 6:00pm - 8:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>HJP 1236 | Lab |
| FC1N | Swarna Mohan<br>M 6:00pm - 8:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>HJP 1226 | Lab |
| FC3N | Swarna Mohan<br>W 6:00pm - 8:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>HJP 1226 | Lab |
| FC5A | Swarna Mohan<br>F 8:00am - 10:50am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>HJP 1236 | Lab |
| FC5B | Swarna Mohan<br>F 8:00am - 10:50am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>HJP 1226 | Lab |
| SEF1 | Swarna Mohan<br>Th 6:00pm - 8:50pm<br>*Must be in the Science in the Evening (SIE) program.* | Seats (Total: 24)<br>HJP 1235 | Lab |

**BSCI201** **Human Anatomy and Physiology I**

*Prerequisite: Minimum grade of C- in BSCI170; or students who have taken courses with comparable content may contact the CMNS-Biology department.*

*Anatomy and physiology of the skeletal, muscular, neural, endocrine, and sensory systems. Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.*

(Sponsoring Dept.: BIOL). Students must pay a $40 laboratory materials fee.

| | | | |
|---|---|---|---|
| 0101 | Caitlin Fox, Maira Goytia<br>MWF 12:00pm - 12:50pm<br>M 1:00pm - 3:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0205 | Lab |
| 0102 | Caitlin Fox, Maira Goytia<br>MWF 12:00pm - 12:50pm<br>M 4:00pm - 6:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0205 | Lab |
| 0104 | Caitlin Fox, Maira Goytia<br>MWF 12:00pm - 12:50pm<br>Tu 11:00am - 1:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0205 | Lab |
| 0105 | Caitlin Fox, Maira Goytia<br>MWF 12:00pm - 12:50pm<br>Tu 6:00pm - 8:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0205 | Lab |
| 0106 | Caitlin Fox, Maira Goytia<br>MWF 12:00pm - 12:50pm<br>W 4:00pm - 6:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0205 | Lab |
| 0107 | Caitlin Fox, Maira Goytia<br>MWF 12:00pm - 12:50pm<br>W 7:00pm - 9:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0205 | Lab |
| 0108 | Caitlin Fox, Maira Goytia<br>MWF 12:00pm - 12:50pm<br>Th 11:00am - 1:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0205 | Lab |
| 0109 | Caitlin Fox, Maira Goytia<br>MWF 12:00pm - 12:50pm<br>M 1:00pm - 3:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0275 | Lab |
| 0110 | Caitlin Fox, Maira Goytia<br>MWF 12:00pm - 12:50pm<br>M 4:00pm - 6:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0275 | Lab |
| 0112 | Maira Goytia, Caitlin Fox<br>MWF 12:00pm - 12:50pm<br>Tu 5:00pm - 7:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0275 | Lab |

| | | | |
|---|---|---|---|
| 1101 | Justicia Opoku-Edusei, Caitlin Fox<br>TuTh 12:30pm - 1:45pm<br>M 9:00am - 11:50am | Seats (Total: 24)<br>BRB 1101<br>BPS 0205 | Lab |
| 1102 | Caitlin Fox, Justicia Opoku-Edusei<br>TuTh 12:30pm - 1:45pm<br>M 7:00pm - 9:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0205 | Lab |
| 1103 | Justicia Opoku-Edusei, Caitlin Fox<br>TuTh 12:30pm - 1:45pm<br>Tu 2:00pm - 4:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0205 | Lab |
| 1104 | Caitlin Fox, Justicia Opoku-Edusei<br>TuTh 12:30pm - 1:45pm<br>W 9:00am - 11:50am | Seats (Total: 24)<br>BRB 1101<br>BPS 0205 | Lab |
| 1105 | Caitlin Fox, Justicia Opoku-Edusei<br>TuTh 12:30pm - 1:45pm<br>W 1:00pm - 3:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0205 | Lab |
| 1107 | Caitlin Fox, Justicia Opoku-Edusei<br>TuTh 12:30pm - 1:45pm<br>Th 2:00pm - 4:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0205 | Lab |
| 1109 | Caitlin Fox, Justicia Opoku-Edusei<br>TuTh 12:30pm - 1:45pm<br>M 7:00pm - 9:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0275 | Lab |
| 1110 | Justicia Opoku-Edusei, Caitlin Fox<br>TuTh 12:30pm - 1:45pm<br>Tu 2:00pm - 4:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0275 | Lab |
| SEF1 | Edward Orlando, Caitlin Fox<br>Tu 6:00pm - 8:50pm<br>Th 6:00pm - 8:50pm<br>*Must be in the Science in the Evening (SIE) program.* | Seats (Total: 19)<br>ONLINE<br>BPS 0205 | Lab |

**BSCI202** **Human Anatomy and Physiology II**

*Prerequisite: Minimum grade of C- in BSCI201; or students who have taken courses with comparable content may contact the CMNS-Biology department.*

*Anatomy and physiology of the cardiovascular, respiratory, immune, digestive, urinary and reproductive systems. Course not acceptable toward major requirements in Biological Sciences, Chemistry or Biochemistry.*

(Sponsoring Dept.: BIOL). Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 0101 | Maira Goytia, Caitlin Fox<br>MWF 10:00am - 10:50am<br>M 11:00am - 1:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0201 | <br><br>Lab |
| 0102 | Caitlin Fox, Maira Goytia<br>MWF 10:00am - 10:50am<br>Tu 9:30am - 12:20pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0201 | <br><br>Lab |
| 0105 | Caitlin Fox, Maira Goytia<br>MWF 10:00am - 10:50am<br>Tu 1:00pm - 3:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0201 | <br><br>Lab |
| 0106 | Maira Goytia, Caitlin Fox<br>MWF 10:00am - 10:50am<br>Tu 7:00pm - 9:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0201 | <br><br>Lab |
| 0109 | Maira Goytia, Caitlin Fox<br>MWF 10:00am - 10:50am<br>W 2:00pm - 4:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0201 | <br><br>Lab |
| 0110 | Maira Goytia, Caitlin Fox<br>MWF 10:00am - 10:50am<br>W 5:00pm - 7:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0201 | <br><br>Lab |
| 0112 | Caitlin Fox, Maira Goytia<br>MWF 10:00am - 10:50am<br>Th 11:00am - 1:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0201 | <br><br>Lab |
| 1101 | Caitlin Fox, Sara Lombardi<br>TuTh 9:30am - 10:45am<br>M 5:00pm - 7:50pm | Seats (Total: 24)<br>ESJ 0224<br>BPS 0201 | <br><br>Lab |
| 1102 | Caitlin Fox, Sara Lombardi<br>TuTh 9:30am - 10:45am<br>M 2:00pm - 4:50pm | Seats (Total: 24)<br>ESJ 0224<br>BPS 0201 | <br><br>Lab |

| | | | |
|---|---|---|---|
| 1103 | Caitlin Fox, Sara Lombardi<br>TuTh 9:30am - 10:45am<br>Tu 4:00pm - 6:50pm | Seats (Total: 24)<br>ESJ 0224<br>BPS 0201 | <br><br>Lab |
| 1105 | Sara Lombardi, Caitlin Fox<br>TuTh 9:30am - 10:45am<br>W 11:00am - 1:50pm | Seats (Total: 24)<br>ESJ 0224<br>BPS 0201 | <br><br>Lab |
| 1107 | Caitlin Fox, Sara Lombardi<br>TuTh 9:30am - 10:45am<br>Th 2:00pm - 4:50pm | Seats (Total: 24)<br>ESJ 0224<br>BPS 0201 | <br><br>Lab |
| 1108 | Caitlin Fox, Sara Lombardi<br>TuTh 9:30am - 10:45am<br>Th 4:00pm - 6:50pm | Seats (Total: 20)<br>ESJ 0224<br>BPS 0275 | <br><br>Lab |
| 1109 | Sara Lombardi, Caitlin Fox<br>TuTh 9:30am - 10:45am<br>Th 5:00pm - 7:50pm | Seats (Total: 24)<br>ESJ 0224<br>BPS 0201 | <br><br>Lab |

**BSCI207** **Principles of Biology III - Organismal Biology**

*Prerequisite: BSCI160 and BSCI161; or BSCI106. And BSCI170 and BSCI171; or BSCI105. And must have completed or be concurrently enrolled in CHEM131.*

*The diversity, structure and function of organisms as understood from the perspective of their common physicochemical principles and unique evolutionary histories.*

(Sponsoring Dept.: BSCI).

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|---|---|---|---|
| 0101 | Nicholas Fletcher<br>MWF 9:00am - 9:50am | Seats (Total: 150)<br>ESJ 2208 | |
| 0201 | Karen Carleton<br>MWF 2:00pm - 2:50pm | Seats (Total: 150)<br>ESJ 2208 | |
| 0301 | Karen Carleton<br>MWF 3:00pm - 3:50pm | Seats (Total: 150)<br>ESJ 2208 | |

**BSCI213** **The Public Microbe**

*Credit only granted for: BSCI213 OR BSCI223.*

*How are microbes essential for human health yet cause so much disease? This course covers basic concepts in microbiology as they relate to human- microbe interactions by surveying the diversity of microbial life, the role our resident microbiota play in human health, modes of disease tracking, and prophylactic and therapeutic measures designed to control the spread of infectious disease.*

Course not acceptable toward major requirements in Biological Sciences Sponsoring dept CBMG

| | | | |
|---|---|---|---|
| 0101 | Daniel Stein<br>MWF 1:00pm - 1:50pm | Seats (Total: 40)<br>PLS 1119 | |

**BSCI222** **Principles of Genetics**

*Prerequisite: CHEM131 and CHEM132; and (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Or must have completed BSCI105 or (BSCI170 and BSCI171); and two semesters of chemistry.*

*Principles and mechanisms of heredity and gene expression. Considers plant, animal, and microbial organisms.*

(Sponsoring Dept.: BSCI).

| | | | |
|---|---|---|---|
| 2121 | Kimberly Paczolt<br>MWF 1:00pm - 1:50pm<br>W 10:00am - 11:50am | Seats (Total: 23)<br>BRB 1101<br>HJP 3233 | Discussion |
| 2122 | Kimberly Paczolt<br>MWF 1:00pm - 1:50pm<br>Th 4:00pm - 5:50pm | Seats (Total: 23)<br>BRB 1101<br>HJP 3233 | Discussion |
| 2123 | Kimberly Paczolt<br>MWF 1:00pm - 1:50pm<br>Th 4:00pm - 5:50pm | Seats (Total: 23)<br>BRB 1101<br>PLS 1121 | Discussion |
| 2124 | Kimberly Paczolt<br>MWF 1:00pm - 1:50pm<br>Tu 10:00am - 11:50am | Seats (Total: 23)<br>BRB 1101<br>PLS 1121 | Discussion |
| 2125 | Kimberly Paczolt<br>MWF 1:00pm - 1:50pm<br>Tu 4:00pm - 5:50pm | Seats (Total: 23)<br>BRB 1101<br>HJP 3233 | Discussion |
| 2130 | Kimberly Paczolt<br>MWF 1:00pm - 1:50pm<br>W 3:00pm - 4:50pm | Seats (Total: 23)<br>BRB 1101<br>HJP 3233 | Discussion |

| | | | |
|---|---|---|---|
| 2132 | Kimberly Paczolt<br>MWF 1:00pm - 1:50pm<br>W 5:00pm - 6:50pm | Seats (Total: 23)<br>BRB 1101<br>HJP 3233 | <br><br>Discussion |
| 2141 | Kimberly Paczolt<br>MWF 1:00pm - 1:50pm<br>Th 2:00pm - 3:50pm | Seats (Total: 23)<br>BRB 1101<br>PLS 1121 | <br><br>Discussion |
| 2142 | Kimberly Paczolt<br>MWF 1:00pm - 1:50pm<br>Th 8:00am - 9:50am | Seats (Total: 23)<br>BRB 1101<br>PLS 1121 | <br><br>Discussion |
| 2211 | Claudia Silva Aldana<br>TuTh 11:00am - 12:15pm<br>Tu 8:00am - 9:50am | Seats (Total: 23)<br>ESJ 0224<br>HJP 3233 | <br><br>Discussion |
| 2215 | Claudia Silva Aldana<br>TuTh 11:00am - 12:15pm<br>Tu 2:00pm - 3:50pm | Seats (Total: 23)<br>ESJ 0224<br>PLS 1121 | <br><br>Discussion |
| 2221 | Claudia Silva Aldana<br>TuTh 11:00am - 12:15pm<br>Tu 4:00pm - 5:50pm | Seats (Total: 23)<br>ESJ 0224<br>PLS 1121 | <br><br>Discussion |
| 2231 | Claudia Silva Aldana<br>TuTh 11:00am - 12:15pm<br>Tu 6:00pm - 7:50pm | Seats (Total: 23)<br>ESJ 0224<br>HJP 3233 | <br><br>Discussion |
| 2251 | Claudia Silva Aldana<br>TuTh 11:00am - 12:15pm<br>W 12:00pm - 1:50pm | Seats (Total: 23)<br>ESJ 0224<br>HJP 3233 | <br><br>Discussion |
| 2261 | Claudia Silva Aldana<br>TuTh 11:00am - 12:15pm<br>W 6:00pm - 7:50pm | Seats (Total: 23)<br>ESJ 0224<br>PLS 1121 | <br><br>Discussion |
| 2264 | Claudia Silva Aldana<br>TuTh 11:00am - 12:15pm<br>Tu 2:00pm - 3:50pm | Seats (Total: 23)<br>ESJ 0224<br>HJP 3233 | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 2265 | Claudia Silva Aldana<br>TuTh 11:00am - 12:15pm<br>W 8:00am - 9:50am | Seats (Total: 23)<br>ESJ 0224<br>PLS 1121 | <br><br>Discussion |

**BSCI223** **General Microbiology**

*Prerequisite: BSCI170 and BSCI171; or BSCI105. Credit only granted for: BSCI223 or BSCI283.*

*How have microorganisms exploited every conceivable ecological niche, and how have humans harnessed this diversity to improve medicine, agriculture, and biotechnology? The course covers fundamental concepts in morphology, physiology, genetics, immunology, ecology, and pathogenic microbiology. Applications of microbiology to medicine, the food industry, and biotechnology.*

(Sponsoring Dept.: CBMG). Students must pay a $40.00 laboratory materials fee.

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|---|---|---|---|
| 1101 | Erin Tran<br>TuTh 11:00am - 11:50am<br>MW 10:00am - 11:50am | Seats (Total: 20)<br>BRB 1101<br>MCB 1201 | <br><br>Lab |
| 1106 | Erin Tran<br>TuTh 11:00am - 11:50am<br>MW 10:00am - 11:50am | Seats (Total: 20)<br>BRB 1101<br>MCB 1206 | <br><br>Lab |
| 1121 | Erin Tran<br>TuTh 11:00am - 11:50am<br>TuTh 9:00am - 10:50am | Seats (Total: 20)<br>BRB 1101<br>MCB 1201 | <br><br>Lab |
| 1126 | Erin Tran<br>TuTh 11:00am - 11:50am<br>TuTh 9:00am - 10:50am | Seats (Total: 20)<br>BRB 1101<br>MCB 1206 | <br><br>Lab |
| 1201 | Erin Tran<br>TuTh 11:00am - 11:50am<br>MW 12:00pm - 1:50pm | Seats (Total: 20)<br>BRB 1101<br>MCB 1201 | <br><br>Lab |
| 1205 | Erin Tran<br>TuTh 11:00am - 11:50am<br>MW 12:00pm - 1:50pm | Seats (Total: 20)<br>BRB 1101<br>MCB 1205 | <br><br>Lab |
| 1206 | Erin Tran<br>TuTh 11:00am - 11:50am<br>MW 12:00pm - 1:50pm | Seats (Total: 20)<br>BRB 1101<br>MCB 1206 | <br><br>Lab |

| | | | |
|---|---|---|---|
| 1221 | Erin Tran<br>TuTh 11:00am - 11:50am<br>TuTh 12:00pm - 1:50pm | Seats (Total: 20)<br>BRB 1101<br>MCB 1201 | Lab |
| 1225 | Erin Tran<br>TuTh 11:00am - 11:50am<br>TuTh 12:00pm - 1:50pm | Seats (Total: 20)<br>BRB 1101<br>MCB 1205 | Lab |
| 1301 | Erin Tran<br>TuTh 11:00am - 11:50am<br>MW 2:00pm - 3:50pm | Seats (Total: 20)<br>BRB 1101<br>MCB 1201 | Lab |
| 1305 | Erin Tran<br>TuTh 11:00am - 11:50am<br>MW 2:00pm - 3:50pm | Seats (Total: 20)<br>BRB 1101<br>MCB 1205 | Lab |
| 1306 | Erin Tran<br>TuTh 11:00am - 11:50am<br>MW 2:00pm - 3:50pm | Seats (Total: 20)<br>BRB 1101<br>MCB 1206 | Lab |
| 1321 | Erin Tran<br>TuTh 11:00am - 11:50am<br>TuTh 2:00pm - 3:50pm | Seats (Total: 20)<br>BRB 1101<br>MCB 1201 | Lab |
| 1325 | Erin Tran<br>TuTh 11:00am - 11:50am<br>TuTh 2:00pm - 3:50pm | Seats (Total: 20)<br>BRB 1101<br>MCB 1205 | Lab |
| 1326 | Erin Tran<br>TuTh 11:00am - 11:50am<br>TuTh 2:00pm - 3:50pm | Seats (Total: 20)<br>BRB 1101<br>MCB 1206 | Lab |
| 2105 | Erin Tran<br>TuTh 11:00am - 11:50am<br>MW 10:00am - 11:50am | Seats (Total: 20)<br>BRB 1101<br>MCB 1205 | Lab |
| 2125 | Erin Tran<br>TuTh 11:00am - 11:50am<br>TuTh 9:00am - 10:50am | Seats (Total: 20)<br>BRB 1101<br>MCB 1205 | Lab |

| | | | |
|---|---|---|---|
| 2226 | Erin Tran<br>TuTh 11:00am - 11:50am<br>TuTh 12:00pm - 1:50pm | Seats (Total: 20)<br>BRB 1101<br>MCB 1206 | <br><br>Lab |
| SEF1 | Cherisse Hall<br>TuTh 6:00pm - 6:50pm<br>TuTh 7:00pm - 9:00pm<br>*Must be in the Science in the Evening (SIE) program.* | Seats (Total: 20)<br>ONLINE<br>MCB 1201 | <br><br>Lab |

**BSCI279** **Supplemental Study; Supplemental Study in Biology**

(Perm req)

*Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.*

(Sponsoring Dept.: BIOL).

**Contact department for information to register for this course.**

**BSCI279P** **Supplemental Study; Undergraduate Teaching Fellows Professional Development Seminar**

(Perm req)

*Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.*

Prerequisite: permission of department.

**Contact department for information to register for this course.**

**BSCI279Q** **Supplemental Study; Readings in Neurophysiology**

(Perm req)

*Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.*

(Sponsoring Dept.: BIOL).

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|---|---|---|
| 0101 | Ricardo Araneda, Daniel Butts<br>Contact instructor or department for details. | Seats (Total: 13) |

**BSCI279R** **Supplemental Study; Undergraduate Research Rotation**

(Perm req)

*Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.*

(Sponsoring Dept.: CBMG).

**Contact department for information to register for this course.**

**BSCI279T** **Supplemental Study; BSCI Learning Assistants**

(Perm req)

*Research or special study to complement a course taken previously which is not fully equivalent to current departmental requirements. Credit according to work done.*

**Contact department for information to register for this course.**

**BSCI289** **Off-Campus Internship**

(Perm req)

*Elective credit for formally established off-campus research internship. Permission of Director of Outreach required.*

(Sponsoring Dept.: BSCI). Provides credit for off-campus research internships. This credit counts as elective toward graduation, but does not satisfy any Biological Sciences degree requirements (For information about research credit that does count toward Biological Sciences contact the Biological Sciences Program, room 1322 Symons Hall). The off-campus internship credit requires that a contract form be filed with the Assistant Dean for Science Education Initiatives, Room 1313 Symons Hall, prior to the internship. The contract must be finalized and signed by the research supervisor at the end of the semester before credit will be awarded.

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|---|---|---|
| 1110 | Katerina Thompson<br>Contact instructor or department for details. | Seats (Total: 20) |
| 1111 | Katerina Thompson<br>Contact instructor or department for details. | Seats (Total: 40) |

**BSCI300** **Strategies for Success**

*Restriction: Must be in a major in USG-Universities at Shady Grove; and must be in Biological Sciences: Physiology & Neurobiology program. Credit only granted for: BSCI300 or BSCI339R. Formerly: BSCI339R.*

*Students often face an increased emphasis on critical thinking, pressure from a typically higher credit hour load, and a faster pace of exposure to new material when moving from lower- to upper-level coursework. The Biological Sciences program designed this course to help all transfer students make successful transitions, both academically and socially, to the University of Maryland at Shady Grove.*

| | | |
|---|---|---|
| ESG1 | Annie Foster-Ahmed, Tracy Odim<br>Th 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 50)<br>BLD4 3321<br>ONLINE |
| | *Registration is restricted to Biological Sciences - Shady Grove majors.* | |

**BSCI329** **Instructional Assistance Practicum**

(Perm req)

*Students serve as instructional assistants in selected undergraduate biology courses. Roles and responsibilities are determined on a course- specific basis and approved by the College Undergraduate Program Committee.*

Prerequiste: permission of department. (Sponsoring Dept.: BIOL). Credit cannot be applied to the requirements of any Biological Sciences Major.

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|---|---|---|
| 1016 | Hilary Bierman<br>Contact instructor or department for details. | Seats (Total: 10) |
| 1020 | Gerald Borgia<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1028 | Daniel Butts<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1033 | Chan Lin<br>Contact instructor or department for details. | Seats (Total: 10) |
| 1250 | Justicia Opoku-Edusei<br>Contact instructor or department for details. | Seats (Total: 20) |
| 1388 | Corine Van der Weele<br>Contact instructor or department for details. | Seats (Total: 8) |
| ESG1 | Hadiya Woodham<br>Contact instructor or department for details.<br>*Registration is restricted to Biological Sciences - Shady Grove majors.* | Seats (Total: 14) |

**BSCI330** **Cell Biology and Physiology**

*Prerequisite: Minimum grade of C- in CHEM131 and CHEM132. And minimum grade of C- in BSCI170 and BSCI171; or minimum grade of C- in BSCI105. Restriction: Must not have completed BSCI230. Credit only granted for: BSCI230 or BSCI330.  Formerly: BSCI230.*

*Biochemical and physiological mechanisms underlying cellular function. Properties of cells which make life possible and mechanisms by which cells provide energy, reproduce, and regulate and integrate with each other and their environment.*

(Sponsoring Dept.: BIOL). Specialization Areas: PHNB, CEBG, MICB, ECEV, and GENB. Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 0101 | Kenneth Frauwirth, Corine Van der Weele<br>MWF 9:00am - 9:50am<br>M 11:00am - 1:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0207 | <br><br>Lab |

| | | | |
|---|---|---|---|
| 0102 | Kenneth Frauwirth, Corine Van der Weele<br>MWF 9:00am - 9:50am<br>M 2:00pm - 4:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0207 | Lab |
| 0104 | Kenneth Frauwirth, Corine Van der Weele<br>MWF 9:00am - 9:50am<br>Tu 11:00am - 1:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0207 | Lab |
| 0105 | Corine Van der Weele, Kenneth Frauwirth<br>MWF 9:00am - 9:50am<br>W 11:00am - 1:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0207 | Lab |
| 0108 | Kenneth Frauwirth, Corine Van der Weele<br>MWF 9:00am - 9:50am<br>Th 8:00am - 10:50am | Seats (Total: 24)<br>BRB 1101<br>BPS 0207 | Lab |
| 0109 | Corine Van der Weele, Kenneth Frauwirth<br>MWF 9:00am - 9:50am<br>Th 11:00am - 1:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0207 | Lab |
| 0112 | Corine Van der Weele, Kenneth Frauwirth<br>MWF 9:00am - 9:50am<br>Tu 6:00pm - 8:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0207 | Lab |
| 0114 | Corine Van der Weele, Kenneth Frauwirth<br>MWF 9:00am - 9:50am<br>Th 2:00pm - 4:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0207 | Lab |
| 0116 | Corine Van der Weele, Kenneth Frauwirth<br>MWF 9:00am - 9:50am<br>Tu 2:00pm - 4:50pm | Seats (Total: 24)<br>BRB 1101<br>BPS 0207 | Lab |
| 1101 | Corine Van der Weele, Kenneth Frauwirth<br>TuTh 2:00pm - 3:15pm<br>M 11:00am - 1:50pm | Seats (Total: 24)<br>ESJ 0224<br>BPS 0213 | Lab |
| 1102 | Corine Van der Weele, Kenneth Frauwirth<br>TuTh 2:00pm - 3:15pm<br>M 2:00pm - 4:50pm | Seats (Total: 24)<br>ESJ 0224<br>BPS 0213 | Lab |

| | | | |
|---|---|---|---|
| 1103 | Corine Van der Weele, Kenneth Frauwirth<br>TuTh 2:00pm - 3:15pm<br>Tu 8:30am - 11:20am | Seats (Total: 24)<br>ESJ 0224<br>BPS 0213 | <br><br>Lab |
| 1104 | Kenneth Frauwirth, Corine Van der Weele<br>TuTh 2:00pm - 3:15pm<br>Th 11:00am - 1:50pm | Seats (Total: 24)<br>ESJ 0224<br>BPS 0213 | <br><br>Lab |
| 1105 | Kenneth Frauwirth, Corine Van der Weele<br>TuTh 2:00pm - 3:15pm<br>W 11:00am - 1:50pm | Seats (Total: 24)<br>ESJ 0224<br>BPS 0213 | <br><br>Lab |
| 1106 | Kenneth Frauwirth, Corine Van der Weele<br>TuTh 2:00pm - 3:15pm<br>W 2:00pm - 4:50pm | Seats (Total: 24)<br>ESJ 0224<br>BPS 0213 | <br><br>Lab |
| 1107 | Corine Van der Weele, Kenneth Frauwirth<br>TuTh 2:00pm - 3:15pm<br>M 6:00pm - 8:50pm | Seats (Total: 24)<br>ESJ 0224<br>BPS 0213 | <br><br>Lab |
| 1109 | Corine Van der Weele, Kenneth Frauwirth<br>TuTh 2:00pm - 3:15pm<br>Tu 6:00pm - 8:50pm | Seats (Total: 24)<br>ESJ 0224<br>BPS 0213 | <br><br>Lab |
| 1110 | Kenneth Frauwirth, Corine Van der Weele<br>TuTh 2:00pm - 3:15pm<br>W 6:00pm - 8:50pm | Seats (Total: 24)<br>ESJ 0224<br>BPS 0207 | <br><br>Lab |
| ESG1 | Heather Tienson-Tseng, Hadiya Woodham<br>Tu 12:15pm - 1:30pm<br>Class time/details on ELMs<br>Tu 2:00pm - 5:00pm<br>*Registration is restricted to Biological Sciences-Shady Grove majors.* | Seats (Total: 16)<br>BLD4 4335<br>ONLINE<br>BLD4 3322 | <br><br><br>Lab |
| ESG2 | Hadiya Woodham, Heather Tienson-Tseng<br>Tu 12:15pm - 1:30pm<br>Class time/details on ELMs<br>W 2:00pm - 5:00pm<br>*Registration is restricted to Biological Sciences-Shady Grove majors.* | Seats (Total: 12)<br>BLD4 4335<br>ONLINE<br>BLD4 3322 | <br><br><br>Lab |

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| SEF1 | Corine Van der Weele, Elizabeth Read-Connole<br>Tu 6:00pm - 8:50pm<br>Th 6:00pm - 8:50pm<br>*Must be in the Science in the Evening (SIE) program.* | Seats (Total: 24)<br>PLS 1184<br>BPS 0207 | Lab |

**BSCI330H** **Cell Biology and Physiology**

*Prerequisite: Minimum grade of C- in CHEM131 and CHEM132. And minimum grade of C- in BSCI170 and BSCI171; or minimum grade of C- in BSCI105. Restriction: Must not have completed BSCI230. Credit only granted for: BSCI230 or BSCI330. Formerly: BSCI230.*

*Biochemical and physiological mechanisms underlying cellular function. Properties of cells which make life possible and mechanisms by which cells provide energy, reproduce, and regulate and integrate with each other and their environment.*

(Sponsoring Dept.: BIOL). Specialization Areas: PHNB, CEBG, MICB, ECEV and GENB. Restricted to students in the Integrated Life Science Honors program or permission of the instructor. Students must pay a $40.00 laboratory materials fee.

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| 0101 | Sabrina Kramer, Corine Van der Weele<br>MWF 11:00am - 11:50am<br>Tu 2:00pm - 4:50pm | Seats (Total: 24)<br>ESJ 1202<br>BPS 0213 | Lab |
| 0102 | Sabrina Kramer, Corine Van der Weele<br>MWF 11:00am - 11:50am<br>W 2:00pm - 4:50pm | Seats (Total: 24)<br>ESJ 1202<br>BPS 0207 | Lab |
| 0103 | Sabrina Kramer, Corine Van der Weele<br>MWF 11:00am - 11:50am<br>W 6:00pm - 8:50pm | Seats (Total: 23)<br>ESJ 1202<br>BPS 0213 | Lab |
| 0104 | Sabrina Kramer, Corine Van der Weele<br>MWF 11:00am - 11:50am<br>Th 2:00pm - 4:50pm | Seats (Total: 24)<br>ESJ 1202<br>BPS 0213 | Lab |

**BSCI333** **Principles of Paleontology**

*Prerequisite: GEOL102; or (BSCI207 or BSCI392); or permission of CMNS-Geology department. Restriction: Permission of instructor is required of non-degree seeking students. Cross-listed with: GEOL331. Credit only granted for: GEOL331 or BSCI333.*

*A review of the theory, principles, and applications of Paleontology. A systematic overview of the morphology, evolution, and relationships of the major fossil-producing taxa.*

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| 0101 | Thomas Holtz, John Merck<br>TuTh 9:30am - 10:45am<br>Th 2:00pm - 5:00pm | Seats (Total: 30)<br>PLS 1113<br>GEO 2107 | <br><br>Lab |

**BSCI338D** **Special Topics in Biology; Complexity of Cancer**

*Lectures, seminars, mini-courses and other special instruction in various biological subjects.*

(Sponsoring Dept.: BIOL).

**Contact department for information to register for this course.**

**BSCI338I** **Special Topics in Biology; Medical Biotechnology & Drug Development**

*Lectures, seminars, mini-courses and other special instruction in various biological subjects.*

(Sponsoring Dept.: BIOL).

**Contact department for information to register for this course.**

**BSCI338J** **Special Topics in Biology; Medical Exploration of HIV/AIDS**

*Lectures, seminars, mini-courses and other special instruction in various biological subjects.*

(Sponsoring Dept.: BIOL).

**Contact department for information to register for this course.**

**BSCI338M** **Special Topics in Biology; Human Health and Disease: A Clinical Approach**

*Lectures, seminars, mini-courses and other special instruction in various biological subjects.*

(Sponsoring Dept.: BIOL).

**Contact department for information to register for this course.**

**BSCI338N** **Special Topics in Biology; Hormones and Behavior**

*Lectures, seminars, mini-courses and other special instruction in various biological subjects.*

Prerequisite: C- or better in BSCI330, NEUR200, or PSYC202. (Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: ECEV, GENB (Cell Biology category), and PHNB. Cross-listing with PSYC489G. Credit only granted for BSCI338N or PSYC489G. A comprehensive overview of the field of behavioral endocrinology, the study of the relationship between hormones and behavior, from a psychobiological perspective. Examine the major mammalian endocrine systems, how hormones influence sex determination, how hormones underlie sex differences in brain structure and function, the role of hormones in parental and social behaviors, mood disorders, homeostasis, cognition, and stress. Both normal and abnormal hormonal pathologies will be discussed. Due to the physiological and experimental perspectives, much of the phenomenology will be based on research in species other than humans. This species comparative approach will reveal interesting "ways of doing things" that are intriguingly different from how "humans do things."

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| 0101 | Mary Ann Rankin<br>TuTh 2:00pm - 3:15pm | Seats (Total: 35)<br>BPS 1238 | |

**BSCI338Z** **Special Topics in Biology; Field Research**

(Perm req)

*Lectures, seminars, mini-courses and other special instruction in various biological subjects.*

(Sponsoring Dept: BIOL). Cannot be used as credit toward the major requirements for any Biological Sciences major. Contact the Biology Department Undergraduate Office for course information.

**Contact department for information to register for this course.**

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**BSCI339C** **Selected Topics in Biology; Cell Biology Lab**

(Perm req)

*Lectures, seminars, and other selected instruction courses in various biological subject matter.*

Prerequisites: BSCI420. Credit will be granted for BSCI339C or BSCI421. (Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: PHNB, CEBG, and GENB. Students must pay a $40.00 laboratory materials fee.

**Contact department for information to register for this course.**

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**BSCI339Z** **Selected Topics in Biology; Cell Death and Cancer Research Seminar**

(Perm req)

*Lectures, seminars, and other selected instruction courses in various biological subject matter.*

Credit cannot be applied to the requirements of any Biological Sciences Major.

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| ESG1 | Hadiya Woodham | Seats (Total: 12) |
| | Th 2:00pm - 5:00pm | BLD4 3322 |
| | *Registration is restricted to Biological Sciences - Shady Grove majors.* | |

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**BSCI348** **Special Topics in Cell Biology and Molecular Genetics**

(Perm req)

*Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI348 may be applied to the BSCI major.*

(Sponsoring Dept.: CBMG). May be repeated, but only 3 credits may be applied to major requirements.

**Contact department for information to register for this course.**

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**BSCI348A** **Special Topics in Cell Biology and Molecular Genetics; Microbiology Undergraduate Teaching Practicum**

(Perm req)

*Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI348 may be applied to the BSCI major.*

(Sponsoring Dept.: CBMG). Students will act as Undergraduate Teaching Assistants for BSCI223. Prerequisite: A or B in BSCI223 and permission of instructor. Students must be available for one of the BSCI223 lab periods. Students interested in this teaching/leadership opportunity should contact Dr. John Buchner for application information: This course is applicable for the Enrichment credits required of all Biological Sciences students in majors with 0404 codes. For others this is elective credit. Formerly: BSCI348U.

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| 0101 | John Buchner | Seats (Total: 25) |
| | Contact instructor or department for details. | |
| | Contact instructor or department for details. | |

**BSCI348R** **Special Topics in Cell Biology and Molecular Genetics; Microbiology Internship**

(Perm req)

*Presentation and discussion of special subjects in the field of cell biology and molecular genetics. A maximum of three credit hours of BSCI348 may be applied to the BSCI major.*

(Sponsoring Dept.: CBMG). This course is an opportunity for students interested in microbiology to pursue a research project in an off-campus lab. The student must see the instructor and complete an information sheet found on the web site, prior to enrolling in the course.

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| 0101 | David Straney | Seats (Total: 8) |
| | Contact instructor or department for details. | |
| 2460 | Norberto Gonzalez- Juarbe | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**BSCI353** **Cellular and Molecular Neuroscience**

*Prerequisite: 1 course with a minimum grade of C- from NEUR200, BSCI207 or BSCI330. Corequisite: Must have completed or be concurrently enrolled in PHYS132 or equivalent course. Cross-listed with: NEUR306. Credit only granted for: NEUR306 or BSCI353.*

*Students will gain an appreciation of neuroscience as the nexus of chemistry, physics, and biology. Additionally, they will gain an understanding of how: both individual and networks of neurons function as variable electrical circuits; our nervous systems transduce signals from the outside world and sets-off molecular cascades; the behavior of a neuron can be changed and or remain the same in response to changing variables. Techniques used to study the nervous system at a cellular and molecular level will be discussed.*

(Sponsoring Dept.: BIOL). Acceptable toward Bilogical Sciences Specialization Areas: CEBG (Cell Biology), Development, Physiology), and PHNB.

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| 0101 | Chan Lin | Seats (Total: 63) |
| | MWF 9:00am - 9:50am | BPS 1250 |

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| 0102 | Daniel Butts<br>TuTh 12:30pm - 1:45pm | Seats (Total: 63)<br>ESJ 2204 |
| SEF1 | Chan Lin<br>F 6:00pm - 9:00pm<br>*Must be in the Science in the Evening (SIE) program.* | Seats (Total: 25)<br>PLS 1146 |

**BSCI357** **Neurobiology of Chemosensory Systems**

*Prerequisite: Minimum grade of C- in BSCI353 or NEUR306. Credit only granted for: BSCI339D, BSCI357, BIOL708Q, or NACS728J. Formerly: BSCI339D.*

*Chemosensation is essential for all forms of life, orchestrating several physiological processes, such as feeding, sexual behaviors, and body homeostasis. This course will review the function of chemosensory systems, including olfaction, gustatory and central chemoreception, among others. Through lectures and discussion of papers, we will examine the cell biology, systems neuroscience, and evolutionary aspects in these chemosensory systems.*

(Sponsoring Dept.: BIOL). Applicable towards Biological Sciences Specialization Areas: GENB and PHNB.

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| 0101 | Ricardo Araneda<br>MW 2:00pm - 3:15pm | Seats (Total: 10)<br>BPS 1208 |

**BSCI358C** **Special Topics in Biological Sciences at Shady Grove; Bioethics of Biotechnology**

*Elective credit designed to allow undergraduate students to partake in focused academic experiences, to gain exposure to emerging issues, or to learn specialized content not represented in the main curriculum.*

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| ESG1 | Emmanuel Kornyo<br>M 12:45pm - 2:00pm<br>Class time/details on ELMs | Seats (Total: 40)<br>Location: TBA<br>ONLINE |

**BSCI360** **Principles of Animal Behavior**

*Prerequisite: BSCI160 and BSCI161; or BSCI106. And BSCI170 and BSCI171; or BSCI105. And BSCI222.*

*Study of animal behavior with emphasis on its evolution and function. Topics include genetic basis of behavior, communication, aggression, foraging, cooperation, mate selection, and relevance for conservation.*

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences specialization areas: ECEV, GENB, and PHNB.

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| 0101 | Gerald Wilkinson<br>MW 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 15)<br>ESJ 0215<br>PLS 1162 | <br><br>Discussion |
| 0103 | Gerald Wilkinson<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 15)<br>ESJ 0215<br>PLS 1162 | <br><br>Discussion |

**BSCI361** **Principles of Ecology**

*Prerequisite: BSCI160 and BSCI161; or BSCI106. And (MATH130, MATH136, or MATH140).*

*Basic principles of population, community, and ecosystem ecology. Use of these principles to predict possible consequences of human-caused changes in the environment and to understand the level of uncertainty of those predictions.*

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: ECEV and GENB.

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| 0101 | Sarah Lee<br>TuTh 11:00am - 12:15pm<br>W 2:00pm - 2:50pm | Seats (Total: 25)<br>PLS 1140<br>PLS 1119 | <br><br>Discussion |
| 0102 | Sarah Lee<br>TuTh 11:00am - 12:15pm<br>W 3:00pm - 3:50pm | Seats (Total: 25)<br>PLS 1140<br>PLS 1119 | <br><br>Discussion |
| 0103 | Sarah Lee<br>TuTh 11:00am - 12:15pm<br>W 4:00pm - 4:50pm | Seats (Total: 25)<br>PLS 1140<br>PLS 1119 | <br><br>Discussion |

**BSCI363** **The Biology of Conservation and Extinction**

*Prerequisite: Minimum grade of C- in BSCI361.*

*Ecology, evolutionary biology, and paleontology will be applied to the study of conservation, species invasions, and extinction.*

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: ECEV and GENB (Ecology, Behavior & Organismal).

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| 0101 | Sarah Lee<br>MWF 11:00am - 11:50am | Seats (Total: 35)<br>BPS 1238 | |

**BSCI366** **Environmental Physiology of Animals**

*Prerequisite: BSCI207.*

*Explores the physiological, morphological, ecological, and behavioral adaptations of aquatic and terrestrial animals that help them manage environmental challenges. The course considers both diverse adaptations among animal lineages and striking convergence among different animal lineages and systems, as well as the physical laws that drive this convergence. Impacts of climate change on the physiology and ecology of animals are highlighted across the course.*

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| 0101 | Leo Shapiro | Seats (Total: 24) |
| | MWF 12:00pm - 12:50pm | PLS 1111 |

**BSCI370** **Principles of Evolution**

*Prerequisite: Minimum grade of C- in BSCI160, BSCI161, and BSCI222 .*

*Understanding evolutionary processes in a natural and human environment, including adaptation; DNA sequence, protein, and genome evolution; evolution of developmental mechanisms; mechanisms of evolutionary change (mutation, natural selection, drift); epidemiology; coevolution and biological control; speciation; comparative methods; extinction and conservation; human evolution.*

(Sponsoring Dept.: BIOL) Applies to Biological Sciences Specialization Areas: PHNB, GENB, and ECEV.

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| 0101 | Carlos Machado | Seats (Total: 100) |
| | TuTh 9:30am - 10:45am | PLS 1140 |

**BSCI374** **Mathematical Modeling in Biology**

*Prerequisite: MATH131, MATH136, or MATH141. Cross-listed with: HLSC374. Credit only granted for: BSCI374, BSCI474, or HLSC374. Formerly: BSCI474. Additional information: The HLSC374 version of this course is restricted to students in the Honors College Integrated Life Sciences program.*

*Students will learn empowering mathematical techniques through the understanding of biological models. Models are chosen from a variety of biological disciplines. Mathematical skills that will be developed along the way include: solving non-linear difference equations, eigenvector analysis, and the implementation of these algorithms as computer models.*

(Sponsoring Dept.: BIOL) Applies as an upper-level laboratory course to Biological Sciences Specialization Areas: CEBG, ECEV, GENB, and PHNB. Students must pay a $40.00 laboratory materials fee.

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| 0101 | Jonathan Simon | Seats (Total: 20) | |
| | TuTh 9:30am - 10:45am | CCC 1111 | |
| | M 1:00pm - 3:50pm | CCC 1111 | Lab |

**BSCI378H** **Cell Biology and Molecular Genetics Department Honors Seminar**

(Perm req)

*Required seminar for all students participating in departmental honors research program.*

(Sponsoring Dept.: CBMG). Restricted to students participating in the CBMG Departmental Honors Program. If you are interested in a CBMG Departmental Honors Research experience, please see the CBMG department web site for detailed information.

*Click here for more course information.*

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| 0101 | Louisa Wu | Seats (Total: 19) |
| | F 2:00pm - 2:50pm | BRB 3101 |

**BSCI379G** **Cell Biology and Molecular Genetics Department Research; Research in Cell Biology and Molecular Genetics**

(Perm req)

*This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a faculty member of the department.*

Prequisite: permission of department. See CBMG department Undergraduate office. (Sponsoring Dept: CBMG).

**Contact department for information to register for this course.**

**BSCI379H** **Cell Biology and Molecular Genetics Department Honors Research**

(Perm req)

*Student should consult program guidelines. Research project carried out under guidance of faculty advisor.*

Corequisite: BSCI378H. Restricted to students participating in the CBMG Departmental Honors Program. (Sponsoring Dept.: CBMG).

*Click here for more course information.*

**Contact department for information to register for this course.**

**BSCI379L** **Cell Biology and Molecular Genetics Department Research; Lab Research**

(Perm req)

*This course is arranged to provide qualified majors an opportunity to pursue research problems under the supervision of a faculty member of the department.*

Any combination of 3 credits of BSCI379G, BSCI379L, and BSCI379H can be used to satisfy the enrichment requirement in CEBG, ECEV, MICB, or PHNB or an upper-level elective in GENB. Students must have successfully completed at least one semester in a Cell Biology & Molecular Genetics department research lab before getting permission to take BSCI379L in the same lab. Students completing at least 4 credits of laboratory research including at least one semester taking BSCI379L may substitute this experience for one of the two upper-level laboratory courses required to complete any BSCI major.

**Contact department for information to register for this course.**

**BSCI381** **Molecular Neuroethology**

*Prerequisite: Minimum grade of C- in BSCI222; and minimum grade of C- in BSCI353 or NEUR306. Credit only granted for: BSCI339W, BSCI381, or BIOL709W. Formerly: BSCI339W.*

*The brain generates a tremendous variety of behaviors, but how it achieves these feats remains largely unknown. Genetics and molecular tools yield fundamental insights into how the brain senses its environment and determines an appropriate course of action. This course will describe modern genetic manipulations (eg, CRISPR editing) and neuronal interventions (e. g., optogenetics), and discuss the quantification of behavioral outputs. Course consists of lectures plus readings and group discussions of primary scientific literature.*

(Sponsoring Dept.: BIOL). Acceptable towards Biological Sciences Specialization Areas: GENB (Genetics & Evolution), CEBG, and PHNB.

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| 0101 | Scott Juntti | Seats (Total: 30) |
| | TuTh 3:30pm - 4:45pm | BPS 0283 |

**BSCI389** **Entomology Department Research**

(Perm req)

*Credit to be determined by the department. A maximum of 8 credits of any version of BSCI389 can be applied to one or more undergraduate degrees. Any research credits completed beyond the first 8 will be included in the total earned credits and factored into the GPA but not applied to any undergraduate degree.*

(Sponsoring Dept.: ENTM).

**Contact department for information to register for this course.**

**BSCI389H** **Entomology Department Research; Honors Research**

(Perm req)

*Credit to be determined by the department. A maximum of 8 credits of any version of BSCI389 can be applied to one or more undergraduate degrees. Any research credits completed beyond the first 8 will be included in the total earned credits and factored into the GPA but not applied to any undergraduate degree.*

(Sponsoring Dept.: ENTM).

**Contact department for information to register for this course.**

**BSCI389L** **Entomology Department Research; Lab Research**

(Perm req)

*Credit to be determined by the department. A maximum of 8 credits of any version of BSCI389 can be applied to one or more undergraduate degrees. Any research credits completed beyond the first 8 will be included in the total earned credits and factored into the GPA but not applied to any undergraduate degree.*

(Sponsoring Dept: ENTM)

**Contact department for information to register for this course.**

**BSCI398H** **Biology Department Honors Seminar**

(Perm req)

*Required seminar for all students participating in departmental honors research program.*

(Sponsoring Dept. :BIOL).

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| 0101 | Alexandra Bely | Seats (Total: 35) |
| | M 4:00pm - 4:50pm | BPS 1208 |

**BSCI399** **Biology Department Research; Biology Department Research**

(Perm req)

*Research and/or integrated reading in biology under the direction and close supervision of a member of the faculty.*

(Sponsoring Dept: BIOL)

**Contact department for information to register for this course.**

**BSCI399H** **Biology Department Honors Research**

(Perm req)

*A laboratory research problem; required each semester during honors participation and culminating in an honors thesis.*

(Sponsoring Dept: BIOL).

**Contact department for information to register for this course.**

**BSCI399L** **Biology Department Research; Biology Lab Research**

(Perm req)

*Research and/or integrated reading in biology under the direction and close supervision of a member of the faculty.*

**Contact department for information to register for this course.**

**BSCI400** **Animal Diversity and Evolution**

*Prerequisite: Minimum grade of C- in BSCI160 and BSCI207.*

*Focuses on deep-level diversity of animals and their evolutionary relationships, unique and repeated transitions in the course of animal evolution, and the evolutionary mechanisms that have shaped and continue to shape animal diversity. The course takes an integrative organismal approach to understanding animal evolution, considering morphology, development, physiology, life history, and ecology. It also explores how patterns of animal diversity have changed through time and the processes affecting animal diversity in our changing world.*

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: ECEV and GENB (Ecology, Behavioral & Organismal category).

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| 0101 | Alexandra Bely | Seats (Total: 35) |
| | MWF 10:00am - 10:50am | BPS 1236 |

**BSCI404** **Cell Biology from a Biophysical Perspective**

*Prerequisite: BSCI330. Recommended: PHYS121 and PHYS122; or completion of PHYS131 and PHYS132 recommended. Jointly offered with BIOL704, BIPH704. Credit only granted for: BSCI338O, BSCI404, BIOL704, BIOL708O, or BIPH704. Formerly: BSCI338O.*

*An approach to cell biology by focusing on mechanisms and unifying physical paradigms. It will not assume a great deal of factual biological knowledge, but will expect a background that prepares students to think mechanistically and quantitatively.*

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: CEBG (Cell Biology), GENB (Cell Biology, Development, Physiology), and PHNB.

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| 0101 | Sergei Sukharev | Seats (Total: 15) |
| | TuTh 3:30pm - 4:45pm | PLS 1113 |

**BSCI410** **Molecular Genetics**

*Prerequisite: BSCI222. And must have completed CHEM233; or (CHEM231 and CHEM232).*

*An advanced genetics course emphasizing the molecular basis of gene structure and function in the context of modern approaches to the genetics of humans and model organisms.*

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences specialization areas: PHNB, CEBG, GENB and ECEV.

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| 0101 | Stephen Mount | Seats (Total: 140) |
| | TuTh 11:00am - 12:15pm | SPH 1312 |

**BSCI411** **Bioinformatics and Integrated Genomics**

*Prerequisite: Minimum grade of C- in BSCI222. Recommended: BSCI410. Credit only granted for: BSCI380 or BSCI411. Formerly: BSCI380.*

*Computational methods for the study of biological data. Pairwise and multiple sequence alignment, genome assembly and annotation, RNAseq analysis, and structural bioinformatics. Introduction to UNIX, Python, and R in the context of biological sequence data. Previous computational experience is not necessary.*

(Sponsoring Dept.: CBMG). Acceptable to Biological Specialization Areas: CEBG, MICB, and GENB. Studets must pay a $40.00 Laboratory Materials fee.

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| 0101 | Brantley Hall, Brian Pierce | Seats (Total: 28) | |
| | MWF 10:00am - 10:50am | MCB 1207 | |
| | M 2:00pm - 4:50pm | PLS 1129 | Lab |

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| 0102 | Brian Pierce, Brantley Hall<br>MWF 10:00am - 10:50am<br>W 2:00pm - 4:50pm | Seats (Total: 28)<br>MCB 1207<br>PLS 1129 | <br><br>Lab |

**BSCI411H** **Bioinformatics and Integrated Genomics**

*Prerequisite: Minimum grade of C- in BSCI222. Recommended: BSCI410. Credit only granted for: BSCI380 or BSCI411. Formerly: BSCI380.*

*Computational methods for the study of biological data. Pairwise and multiple sequence alignment, genome assembly and annotation, RNAseq analysis, and structural bioinformatics. Introduction to UNIX, Python, and R in the context of biological sequence data. Previous computational experience is not necessary.*

(Sponsoring Dept.: CBMG). Acceptable to Biological Specialization Areas: CEBG, MICB, and GENB. Studets must pay a $40.00 Laboratory Materials fee.

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| 0101 | Brian Pierce, Brantley Hall<br>MWF 10:00am - 10:50am<br>M 2:00pm - 4:50pm | Seats (Total: 28)<br>MCB 1207<br>PLS 1129 | <br><br>Lab |
| 0102 | Brantley Hall, Brian Pierce<br>MWF 10:00am - 10:50am<br>W 2:00pm - 4:50pm | Seats (Total: 28)<br>MCB 1207<br>PLS 1129 | <br><br>Lab |

**BSCI414** **Recombinant DNA Laboratory**

*Prerequisite: BSCI222.*

*An advanced course offering hands-on experience in performing recombinant DNA experiments. All current molecular biology techniques used for cloning prokaryotic genes, analyzing the gene products, and modifying the genes will be performed. Techniques include isolation of DNA, use of restriction enzymes; cloning procedures, PCR analysis, and Southern hybridizations. Lecture material focuses on interpretation of results generated in the laboratory.*

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences Specialization Areas: PHNB, MICB, CEBG and GENB. Students must pay a $40.00 laboratory materials fee.

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| 0101 | Norberto Gonzalez- Juarbe<br>TuTh 2:00pm - 5:00pm | Seats (Total: 18)<br>MCB 1135 | <br>Lab |

**BSCI415** **Molecular Genetics Laboratory**

*Prerequisite: Must have completed or be concurrently enrolled in BSCI410. Restriction: Junior standing or higher. Credit only granted for: BSCI348G or BSCI415. Formerly: BSCI348G.*

*Problem solving laboratory organized around extended projects that employ different approaches toward linking gene and function.*

(Sponsoring Dept.: CBMG). Specialization Areas: CEBG and GENB. Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 0101 | David Straney | Seats (Total: 20) | |
| | TuTh 2:00pm - 5:00pm | MCB 3123 | Lab |

**BSCI416 Human Genetics**

*Prerequisite: Minimum grade of C- in BSCI410. Recommended: BSCI330.*

*Approaches to human genetics and applications to biology and medicine focusing on specific human genetic topics using primary research papers as the main resource.*

(Sponsoring Dept.: CBMG).

**Contact department for information to register for this course.**

**BSCI420 Cell Biology Lectures**

*Prerequisite: BSCI330, BSCI222, CHEM231, and CHEM232. Credit only granted for: BSCI420 or BSCI421.*

*Molecular and biochemical bases of cellular organization and function in eukaryotes.*

(Sponsoring Dept: CBMG). Specialization Areas: PHNB, CEBG, and GENB. Cross-listed with BSCI420. Credit only granted for BSCI420 or CBMG688C.

| | | | |
|---|---|---|---|
| 0101 | Norma Andrews | Seats (Total: 70) | |
| | TuTh 12:30pm - 1:45pm | TWS 0310 | |

**BSCI422 Principles of Immunology**

*Prerequisite: BSCI222. Recommended: BSCI330; and (BSCI223 or BSCI283). Restriction: Junior standing or higher.*

*The immune system in health and disease. Presentation and analysis of the cellular and molecular processes that comprise the immune system.*

| | | | |
|---|---|---|---|
| ESG1 | Gregory Simon | Seats (Total: 50) | |
| | Tu 11:00am - 12:15pm | ONLINE | |
| | Class time/details on ELMs | ONLINE | |
| | *Registration is restricted to Biological Sciences-Shady Grove majors.* | | |
| SEF1 | Sandra Fox-Moon | Seats (Total: 12) | |
| | W 6:00pm - 9:00pm | MCB 1123 | |
| | *Must be in the Science in the Evening (SIE) program.* | | |

**BSCI424 Pathogenic Microbiology**

*Prerequisite: BSCI223 or BSCI283.*

*The role of bacteria and fungi in the diseases of humans with emphasis upon the differentiation and culture of microorganisms, types of disease, modes of disease transmission, prophylactic, therapeutic, and epidemiological aspects.*

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences Specialization Areas: MICB and GENB (Category 2). Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 0101 | Volker Briken<br>TuTh 11:00am - 11:50am<br>MW 11:00am - 12:50pm | Seats (Total: 18)<br>BPS 0283<br>MCB 1143 | <br><br>Lab |
| 0102 | Volker Briken<br>TuTh 11:00am - 11:50am<br>MW 1:00pm - 2:50pm | Seats (Total: 18)<br>BPS 0283<br>MCB 1143 | <br><br>Lab |

**BSCI430 Developmental Biology**

*Prerequisite: BSCI222 and BSCI330.*

*Structural, functional and regulatory events and mechanisms that operate during development to produce an integrated, multicellular organism composed of a multitude of differentiated cell types.*

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: CEBG(Cell Biology), ECEV, GENB (Cell Biology, Development, Physiology) and PHNB.

| | | |
|---|---|---|
| 0101 | William Jeffery<br>TuTh 2:00pm - 3:15pm | Seats (Total: 35)<br>PLS 1130 |

**BSCI431 The Origin and Evolution of Nervous Systems**

*Prerequisite: Minimum grade of C- in NEUR200 or BSCI207.*

*Explore how brains change through evolution along the animal tree of life. By comparing the nervous system structure and development across the animal kingdom, this course aims to reveal common designs and mechanisms that generate behavior, and to inform our understanding of how biology builds minds. Topics include the origins of neurons, the universal molecular patterning of brain development across invertebrates and vertebrates, the evolution of neurotransmission, comparative mechanisms of learning and memory, and what in our brain makes us human.*

| | | |
|---|---|---|
| 0101 | Chan Lin<br>TuTh 2:00pm - 3:15pm | Seats (Total: 35)<br>BPS 1236 |

**BSCI437 General Virology**

*Prerequisite: BSCI222; or permission of CMNS-Biological Sciences UG Program. Restriction: Junior standing or higher.*

*Discussion of the physical and chemical nature of viruses, virus cultivation and assay methods, virus replication, viral diseases with emphasis on the oncogenic viruses, viral genetics, and characteristics of the major virus groups.*

(Sponsoring Dept.: CBMG). Acceptable toward Biological Sciences Specialization Areas: GENB, MICB and CEBG.

| | | |
|---|---|---|
| 0101 | Margaret Scull | Seats (Total: 80) |
| | MWF 11:00am - 11:50am | CCC 1100 |

**BSCI443** **Microbial Physiology**

*Prerequisite: Minimum grade of C- in BSCI223 or BSCI283; and minimum grade of C- in BCHM461 or BCHM462.*

*Microbial cellular and population growth. Fermentation metabolism, physiology of anaerobiosis, and energy conservation and transformation in bacterial membranes. Efficiency of energy utilization for growth. Membrane structure and transport. Bacterial motility and chemotaxis. Regulation of bacterial chromosome replication, RNA and protein synthesis. Control of metabolic pathways. Bacterial stress responses. Antimicrobials.*

(Sponsoring Dept.: CBMG).

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|---|---|---|
| 0101 | Jiqiang Ling | Seats (Total: 50) |
| | TuTh 9:30am - 10:45am | BPS 1236 |

**BSCI447** **General Endocrinology**

*Prerequisite: BSCI330, CHEM241, and CHEM242.*

*Functions and dysfunctions of the endocrine system with special reference to mammals.*

(Sponsoring DEPT.: BIOL). Specialization Areas: PHNB and GENB.

| | | |
|---|---|---|
| 0101 | Justicia Opoku-Edusei | Seats (Total: 75) |
| | TuTh 9:30am - 10:45am | PLS 1130 |

**BSCI450** **Mammalian Systems Physiology**

*Prerequisite: Minimum grade of C- in BSCI330; and minimum grade of C- in CHEM233 or both CHEM231 and CHEM232. Credit only granted for: BIOL708M, BSCI338L, BSCI440, or BSCI450.*

*A study of the cardiovascular, hemopoietic, gastrointestinal, renal, and respiratory systems. Chemical and endocrine regulation of physiological functions in mammals.*

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: GENB and PHNB.

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|---|---|---|---|
| 0101 | Colenso Speer<br>MWF 10:00am - 10:50am | Seats (Total: 130)<br>ESJ 1224 | |
| ESG1 | Vitaly Stepensky<br>MW 9:30am - 10:45am<br>*Registration is restricted to Biological Sciences-Shady Grove majors.* | Seats (Total: 50)<br>BLD4 5332 | |

**BSCI451** **Mammalian Systems Physiology Laboratory**

*Prerequisite: Must have completed with a minimum of C- or be concurrently enrolled in either BSCI440 or BSCI450. Credit only granted for: BSCI441 or BSCI451. Formerly: BSCI441.*

*Laboratory exercises in experimental mammalian physiology.*

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: GENB and PHNB. Students must pay a $40.00 $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 0101 | Corine Van der Weele<br>M 12:00pm - 12:50pm<br>M 3:00pm - 6:50pm | Seats (Total: 20)<br>BPS 1243<br>PLS 1181 | <br><br>Lab |
| 0102 | Corine Van der Weele<br>M 12:00pm - 12:50pm<br>Tu 2:00pm - 5:50pm | Seats (Total: 20)<br>BPS 1243<br>PLS 1181 | <br><br>Lab |
| 0103 | Corine Van der Weele<br>M 12:00pm - 12:50pm<br>W 3:00pm - 6:50pm | Seats (Total: 20)<br>BPS 1243<br>PLS 1181 | <br><br>Lab |
| 0104 | Corine Van der Weele<br>M 12:00pm - 12:50pm<br>Th 2:00pm - 5:50pm | Seats (Total: 20)<br>BPS 1243<br>PLS 1181 | <br><br>Lab |

**BSCI455** **Neuroscience Laboratory**

*Prerequisite: NEUR306 or BSCI353; and PHYS132. Recommended: NEUR305. Cross-listed with: NEUR405. Credit only granted for: PSYC401, NEUR405, BSCI455 or BSCI454.*

*Students will utilize neurophysiological techniques to examine fundamental principles of neurons and neural circuits. This course will reinforce content from prerequisite NEUR courses. Students will also strengthen skills in experimental design and scientific writing.*

(Sponsoring Dept.: BIOL). Acceptable toward Biological Sciences Specialization Areas: CEBG (Cell Biology), GENB (Cell Biology, Development, Physiology), and PHNB. Students must pay a $40.00 laboratory materials fee.

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|---|---|---|---|
| 0101 | Dawei Han, Hilary Bierman<br>M 11:00am - 12:50pm<br>Th 2:00pm - 6:00pm | Seats (Total: 20)<br>ESJ 2212<br>BPS 0257 | <br><br>Lab |
| 0102 | Hilary Bierman, Dawei Han<br>M 11:00am - 12:50pm<br>Tu 2:00pm - 6:00pm | Seats (Total: 20)<br>ESJ 2212<br>BPS 0257 | <br><br>Lab |
| 0103 | Dawei Han, Hilary Bierman<br>M 11:00am - 12:50pm<br>W 1:00pm - 5:00pm | Seats (Total: 20)<br>ESJ 2212<br>BPS 0257 | <br><br>Lab |

**BSCI464** **Microbial Ecology**

*Prerequisite: BSCI223 or BSCI283; and (CHEM271 or CHEM277); or permission of the instructor.*

*Interaction of microorganisms with the environment, other microorganisms and with higher organisms. Roles of microorganisms in the biosphere. Microorganisms and current environmental problems.*

(Sponsoring Dept: CBMG).

| | | | |
|---|---|---|---|
| 0101 | Charles Delwiche<br>MWF 11:00am - 11:50am | Seats (Total: 20)<br>MCB 2119 | |

**BSCI467** **Freshwater Biology**

*Prerequisite: BSCI160.*

*Biology and ecology of freshwater invertebrates in lotic and lentic habitats, their adaptation to aquatic life, their function in aquatic ecosystems, and their relationship to environmental deterioration. Laboratory will include field trips, demonstrations, and identifications.*

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|---|---|---|---|
| 0101 | Katie Reding<br>MWF 1:00pm - 1:50pm<br>W 2:00pm - 4:50pm | Seats (Total: 24)<br>BPS 0283<br>PLS 1161 | <br><br>Lab |
| 0102 | Katie Reding<br>MWF 1:00pm - 1:50pm<br>Th 2:00pm - 4:50pm | Seats (Total: 24)<br>BPS 0283<br>PLS 1161 | <br><br>Lab |

**BSCI481** **Insect Diversity and Classification**

*Prerequisite: BSCI337.*

*A summary of the morphology, systematics and evolution of insects and techniques for their collection, preservation and identification. Emphasis is placed on the diversity of insects in North America, particularly Maryland and adjacent regions. An insect collection is required.*

Students must pay a $40.00 laboratory materials fee.

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|---|---|---|---|
| 0101 | Jeffrey Shultz | Seats (Total: 30) | |
| | F 10:00am - 10:50am | PLS 1117 | |
| | M 10:00am - 1:00pm | PLS 1161 | Lab |
| | W 10:00am - 1:00pm | PLS 1161 | Lab |

**BSCI482** **Insect Physiology and Molecular Biology**

*Prerequisite: BSCI337.*

*Physiological and biochemical functions of insects. Insect endocrinology, neurobiology, sensory physiology, integument and molting, development and metamorphosis, immunity, metabolism and related topics.*

| | | | |
|---|---|---|---|
| 0101 | Jian Wang | Seats (Total: 20) | |
| | TuTh 11:00am - 12:15pm | Location: TBA | |
| | Tu 2:00pm - 5:00pm | Location: TBA | Lab |

**BSCI483** **Insects, Pathogens, and Public Health**

*Prerequisite: BSCI207.*

*Mosquito- and tick-borne disease transmission poses significant challenges to human health and well-being globally, and is on the rise in North America. Arthropod parasites and the pathogens they transmit to humans and animals will be introduced, and the public health significance of these arthropods will be examined. The ecology and behavior of vectors in relation to disease transmission will be emphasized.*

(Sponsoring Dept.: ENTM). Acceptable toward Biological Specialization Areas: ECEV and GENB (Ecology, Behavior & Organismal category).

| | | | |
|---|---|---|---|
| 0101 | Megan Fritz | Seats (Total: 24) | |
| | MW 9:00am - 9:50am | PLS 1140 | |
| | F 9:00am - 9:50am | PLS 1161 | Discussion |
| 0102 | Megan Fritz | Seats (Total: 24) | |
| | MW 9:00am - 9:50am | PLS 1140 | |
| | F 10:00am - 10:50am | PLS 1161 | Discussion |

**BSCI494** **Animal-Plant Interactions**

*Prerequisite: BSCI160 and BSCI161; or BSCI106.*

*Theoretical, conceptual and applied aspects of evolutionary and ecological interactions between plants and animals. This course gives an overview of major ideas, historical controversies, and current research on animal-plant relationships. We will explore the mechanisms and evolution of plant defenses and animal counter-adaptations, behavioral ecology and interactions across trophic levels, the role of microbial communities in mediating interactions, and how these interactions color human experience through food and medicine. The course will have a blended lecture/discussion format and will include field walks to collect herbivory data and observe animal-plant interactions.*

| | | |
|---|---|---|
| 0101 | Karin Burghardt | Seats (Total: 24) |
| | TuTh 11:00am - 12:15pm | ESJ B0320 |

# BSOS Behavioral and Social Sciences Fall 2024

**BSOS180** **Introduction to Data Management**

*Credit only granted for: BSOS180 or BSOS188B. Formerly: BSOS188B. Additional information: Recommended for BSOS majors who need additional support for their disciplinary stats or research methods sequence.*

*Learn to read data, clean data sets, and perform other vital functions (mainly in Excel). Students will develop fundamental skills that will ease the transition into future coursework (or a career) in data science or analytics. Designed for students who have minimal background in Excel or computer software.*

| | | |
|---|---|---|
| 0101 | Brian Kim | Seats (Total: 180) |
| | **Meets September 9, 2024 - November 1, 2024** | |
| | Class time/details on ELMs | ONLINE |

**BSOS188C** **Selected Topics in the Behavioral and Social Sciences; Social Data Science: Pathways and Applications**

*Introductory selected topics course dealing with interdisciplinary issues related to the social sciences.*

Data Science, machine learning, and AI have exploded in popularity, and the big data revolution has affected how science is done in all fields, from the physical sciences to the behavioral and social sciences. This course explores the goals, values, skills, and practices of how data science is conducted within a variety of fields within the social sciences. It will enable students to identify questions and challenges that data science can address and help them find the data science discipline that matches their own values and goals.

| | | |
|---|---|---|
| 0101 | Brian Kim | Seats (Total: 25) |
| | Tu 2:00pm - 2:50pm | ONLINE |

**BSOS201** **Ensuring your Financial Future Through Stock Investing**

*Credit only granted for: BSOS289I or BSOS201. Formerly: BSOS289I. Additional information: No prior knowledge of the stock market or investing is expected or required.*

*Introduces students to investing and trading, with special emphasis on the field of technical analysis. Planning for one's financial future is a critical skill for all students. Students will learn how to evaluate companies using the investors.com website and the TC2000 stock charting program. Students will develop an idea of the risks and benefits of investing, establishing a savings strategy, opening an IRA, and strategically planning for future financial security. In addition to readings, lectures, and online videos, students will participate in virtual stock market trading exercises and manage a virtual account.*

| | | | |
|---|---|---|---|
| FC01 | Amy Billing, Eric Wish<br>F 1:00pm - 4:00pm | Seats (Total: 139)<br>ESJ 2204 | |
| | *Restricted to students in Freshmen Connection. This is a course about rules-based trading and you must participate enthusiastically in the virtual trading simulation using these rules as the basis for your trading in order to pass the course. Day trading or trading bitcoin is not permitted. It is strongly advised that you only sign up for this course if you are willing to utilize the technical analysis strategies and trading rules presented in the course.* | | |

**BSOS233** **Data Science for the Social Sciences**

*Prerequisite: MATH 107 (or higher) or STAT 100. Restriction: Must be in a major in the College of Behavioral and Social Sciences or the College of Information Studies; or permission of instructor.*

*An introduction to modern methods of data analysis for social scientists. This course emphasizes teaching students who have no previous coding experience how to analyze data and extract meaning in a social science context. Students will gain critical programming skills and learn inferential thinking through examples and projects with real-world relevance.*

*Click here for permission to add this course*

| | | | |
|---|---|---|---|
| 0101 | Jacob Coutts<br>MW 10:00am - 10:50am<br>Th 2:00pm - 3:50pm | Seats (Total: 25)<br>ATL 2324<br>SQH 1103 | <br><br>Discussion |
| 0102 | Jacob Coutts<br>MW 10:00am - 10:50am<br>F 11:00am - 12:50pm | Seats (Total: 25)<br>ATL 2324<br>PLS 1119 | <br><br>Discussion |
| 0103 | Jacob Coutts<br>MW 10:00am - 10:50am<br>W 2:00pm - 3:50pm | Seats (Total: 25)<br>ATL 2324<br>MTH B0425 | <br><br>Discussion |

**BSOS248A** **Leadership Seminar I; Ambassadors**

(Perm req)

*A topics course in the behavioral and social sciences designed to develop student leaders with skills that will address important issues of the college and offers diverse viewpoints intended to challenge common perceptions of leadership, technology programs and communication.*

**Contact department for information to register for this course.**

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**BSOS248D** **Leadership Seminar I; Dean's Student Advisory Council**

(Perm req)

*A topics course in the behavioral and social sciences designed to develop student leaders with skills that will address important issues of the college and offers diverse viewpoints intended to challenge common perceptions of leadership, technology programs and communication.*

**Contact department for information to register for this course.**

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**BSOS248P** **Leadership Seminar I; Peer Mentor Seminar I**

(Perm req)

*A topics course in the behavioral and social sciences designed to develop student leaders with skills that will address important issues of the college and offers diverse viewpoints intended to challenge common perceptions of leadership, technology programs and communication.*

**Contact department for information to register for this course.**

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**BSOS258D** **Leadership Practicum I; Dean's Student Advisory Council**

(Perm req)

*This course puts into practice the elements and skills learned in the seminar series that directly benefit the college.*

**Contact department for information to register for this course.**

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**BSOS258L** **Leadership Practicum I; DSAC Officers**

(Perm req)

*This course puts into practice the elements and skills learned in the seminar series that directly benefit the college.*

Repeatable to 9 credits.

**Contact department for information to register for this course.**

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**BSOS258P** **Leadership Practicum I; Peer Mentors**

(Perm req)

*This course puts into practice the elements and skills learned in the seminar series that directly benefit the college.*

**Contact department for information to register for this course.**

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**BSOS288I** **Special Topics in Behavioral and Social Sciences; Internship Practicum in the Social Sciences**

(Perm req)

*Introductory special topics course focusing on an interdisciplinary topic related to behavioral and social sciences.*

**Contact department for information to register for this course.**

**BSOS326** **Python Programming for the Social Sciences**

*Prerequisite: Minimum grade of C- in INST126 or BSOS233. Restriction: Restricted to students in the Social Data Science major or by permission of the instructor.*

*Python has become the most powerful programming language in advanced statistics and data analytics. It includes expansive packages for data handling and processing, including the latest developments in machine learning, and offers Integrated Development Environments (IDE) for code development, testing, debugging, and graphical representation. This course offers a thorough introduction to Python and those packages that are fundamental to data processing and analysis.*

*Click here for permission to add this course*

| | | |
|---|---|---|
| 0101 | Neil Lund<br>TuTh 9:30am - 10:45am | Seats (Total: 50)<br>SQH 1120 |

**BSOS355** **Social Sciences Internship Practicum**

(Perm req)

*Restriction: Must have earned a minimum of 60 credits; and minimum cumulative GPA of 2.5; and must have completed at least 1 semester at UMD. Credit only granted for: BSOS388I or BSOS355. Formerly: BSOS388I.*

*BSOS 355 is an internship course open to all majors. It will enable students to articulate and apply the scholarship from the discipline related to their specific internship placement into a real-work environment.*

| | | |
|---|---|---|
| 0101 | Liza Lebrun<br>Class time/details on ELMs | Seats (Total: 30)<br>ONLINE |

**BSOS358A** **Leadership Practicum II; Ambassadors**

(Perm req)

*This course puts into practice the advanced skills and elements learned in the seminar series that directly benefit the college.*

**Contact department for information to register for this course.**

**BSOS358P** **Leadership Practicum II; Peer Mentors**

(Perm req)

*This course puts into practice the advanced skills and elements learned in the seminar series that directly benefit the college.*

**Contact department for information to register for this course.**

**BSOS361** **Academic and Career Planning for Transfer Students in the College of Behavioral and Social Sciences**

*Restriction: Must be a first-semester transfer student in a College of Behavioral and Social Sciences major. Additional information: Intended for first semester transfer students in BSOS majors.*

*Students will utilize the resources of the Feller Center for Academic and Career Planning and TerrapinSTRONG to explore how their individual social identities and strengths contribute to building strong communities in personal, academic, and professional career spaces.*

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|---|---|---|
| 0101 | Shannon Sibel<br>W 3:00pm - 4:30pm | Seats (Total: 25)<br>TYD 1114 |
| 0102 | Bailey Kier<br>Th 4:00pm - 5:30pm | Seats (Total: 25)<br>TYD 0102 |
| 0103 | Stephanie Grissom<br>Tu 3:30pm - 5:00pm | Seats (Total: 25)<br>TYD 1114 |
| 0104 | Felecia Greer<br>M 2:00pm - 3:30pm | Seats (Total: 25)<br>TYD 1114 |
| 0105 | TC Lloyd<br>M 12:00pm - 1:30pm | Seats (Total: 25)<br>TYD 1102 |

**BSOS386** **Experiential Learning**

(Perm req)

**Contact department for information to register for this course.**

**BSOS388C** **Behavioral and Social Sciences Special Topics**

*Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.*

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|---|---|---|
| 0101 | Nikita Kimani<br>**Meets August 26, 2024 - October 15, 2024**<br>Tu 4:00pm - 6:00pm | Seats (Total: 20)<br>TYD 0102 |
| 0201 | Nikita Kimani<br>**Meets October 22, 2024 - December 9, 2024**<br>W 4:00pm - 6:00pm | Seats (Total: 20)<br>SKN 1115 |

**BSOS388E** **Behavioral and Social Sciences Special Topics; CIDCM Minor Practicum**

(Perm req)

*Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.*

| | | |
|---|---|---|
| 0101 | Liza Lebrun | Seats (Total: 30) |
| | Class time/details on ELMs | ONLINE |

**BSOS388Q** **Behavioral and Social Sciences Special Topics; Cesar Directed Study**

(Perm req)

*Advanced special topics course focusing on an interdisciplinary topic related to the Behavioral and Social Sciences.*

**Contact department for information to register for this course.**

**BSOS399** **Directed Study in Behavioral and Social Sciences**

*Guidance for the advanced student capable of interdisciplinary study on special projects under the supervision of the Assistant Dean for Student Affairs.*

**Contact department for information to register for this course.**

**BSOS399T** **Directed Study in Behavioral and Social Sciences; Civicus Teaching Assistant**

(Perm req)

*Guidance for the advanced student capable of interdisciplinary study on special projects under the supervision of the Assistant Dean for Student Affairs.*

**Contact department for information to register for this course.**

**BSOS448A** **Teaching Assistant Practicum; Fianancial Literacy Education**

(Perm req)

*Supervised practicum for teaching assistants for BSOS/UNIV courses.*

| | | |
|---|---|---|
| 0101 | Eric Wish, Amy Billing | Seats (Total: 15) |
| | Contact instructor or department for details. | |

**BSOS448C** **Teaching Assistant Practicum; Civicus**

(Perm req)

*Supervised practicum for teaching assistants for BSOS/UNIV courses.*

**Contact department for information to register for this course.**

**BSOS448I** **Teaching Assistant Practicum; Internship**

(Perm req)

*Supervised practicum for teaching assistants for BSOS/UNIV courses.*

**Contact department for information to register for this course.**

**BSOS448T** **Teaching Assistant Practicum; (UNIV)**

(Perm req)

*Supervised practicum for teaching assistants for BSOS/UNIV courses.*

**Contact department for information to register for this course.**

# BSST Terrorism Studies Fall 2024

**BSST200** **Terrorism Studies**

*Credit only granted for: BSST330 or BSST200. Formerly: BSST330.*

*Theories explaining the formation of terrorist groups and the motivations behind terrorist behavior, building upon theories from social psychology, sociology, political science, criminology, and history. The course examines the different levels of analysis for terrorism studies, the different methods scholars utilize for research, and the most prominent datasets in the field of homeland security. In addition, this course provides a review of various terrorist groups and ideological movements. The course concludes with an introduction to the different approaches to counter violent extremism and terrorism.*

| | | |
|---|---|---|
| 0101 | Thomas Guarrieri<br>TuTh 11:00am - 12:15pm<br>*Restricted to students in the Global Terrorism Studies minor (#BS07).* | Seats (Total: 40)<br>CHE 2110 |
| 0201 | Thomas Guarrieri<br>TuTh 11:00am - 12:15pm<br>*Restricted to students in International Development and Conflict Management minor (#BS02), Global Poverty minor (#AG06), or Global Engineering Leadership minor (#EN09).* | Seats (Total: 4)<br>CHE 2110 |
| 0301 | Thomas Guarrieri<br>TuTh 11:00am - 12:15pm | Seats (Total: 70)<br>CHE 2110 |

**BSST240** **Understanding The Principles and Perils of CBRN Weapons**

*Additional information: If taken in the same term as BSST241 these courses will count for General Education Natural Sciences Lab.*

*Explores the 'dark side' of scientific applications. Students will gain an understanding of CBRN Weapons, through the exploration of the scientific method, and certain fundamental principles of chemistry, biology, and physics. Students will also learn how to test hypotheses, use basic statistics, interpret results, and apply their new knowledge through discussions of practical applications in the domains of public health, emergency management, epidemiology, and threat assessment. Bringing these fields together in one class will allow students to better understand the use of and threat from CBRN weapons in terrorism.*

| | | | |
|---|---|---|---|
| FC01 | Steve Sin | Seats (Total: 20) | |
| | TuTh 4:30pm - 5:45pm | JMZ 0120 | |
| | *Restricted to students in Freshmen Connection.* | | |

**BSST241** **Understanding the Principles and Perils of CBRN Weapons (Lab)**

*Corequisite: BSST240. Additional information: This is an optional 1-credit lab course offered in coordination with BSST240. If taken in the same term as BSST240 these courses will count for General Education Natural Sciences Lab.*

*An exploration of the threat of Chemical, Biological, Radiological, and Nuclear (CBRN) weapons aimed to provide students with a basic, multidisciplinary, natural science foundation in chemistry, biology, and physics.*

Students must also be enrolled in BSST240: Understanding the Principles and Perils of CBRN Weapons

| | | | |
|---|---|---|---|
| FC01 | Steve Sin | Seats (Total: 20) | |
| | F 10:00am - 12:30pm | PLS 1129 | Lab |
| | *Restricted to students in Freshmen Connection.* | | |

**BSST334** **States of Emergency**

*Students will explore the manner in which crises unfold from the perspective of a variety of emergency response disciplines, including: emergency management, law enforcement, intelligence analysis, cyber analysis, risk communication, health and human services, and emergency psychiatry/psychology. Students will participate in a semester-long simulation of an unfolding terrorist attack.*

| | | | |
|---|---|---|---|
| 0101 | Max Erdemandi | Seats (Total: 40) | |
| | Tu 12:30pm - 1:45pm<br>Th 12:30pm - 1:45pm | TMH 0301<br>ONLINE | Discussion |
| 0102 | Max Erdemandi | Seats (Total: 40) | |
| | Tu 12:30pm - 1:45pm<br>Th 2:00pm - 3:15pm | TMH 0301<br>ONLINE | Discussion |
| 0103 | Max Erdemandi | Seats (Total: 40) | |
| | Tu 12:30pm - 1:45pm<br>Th 3:30pm - 4:45pm | TMH 0301<br>ONLINE | Discussion |

**BSST335** **Innovations in Countering Violent Extremism**

*Credit only granted for: BSST335 or BSST338V. Formerly: BSST338V. Additional information: It is recommended that BSST335 be taken after, or concurrent with, BSST330.*

*Introduces students to novel innovations in the development of Countering Violent Extremism (CVE) programs. CVE is a realm of policy, programs, and interventions designed to prevent individuals from engaging in violence associated with radical political, social, cultural, and/or religious ideologies. Unlike counterterrorism strategies that often focus on targeting and disrupting terrorist plots, CVE focuses on radicalization prevention through engagement and intervention with communities. CVE also focuses on deradicalization and rehabilitation of former extremists. Throughout the course, students will work in groups to develop their own innovative CVE programs, rather than merely learn about CVE through lectures.*

Restricted to Global Terrorism Minor students (#BS07).

| | | |
|---|---|---|
| 0101 | Amy Pate | Seats (Total: 40) |
| | TuTh 3:30pm - 4:45pm | ESJ 1309 |

**BSST340** **Oral Communication for National Security Careers**

*Credit only granted for: BSST340 or BSST338E. Formerly: BSST338E.*

*Students will discuss perspectives on strategic communication and national security, while discussing and practicing public speaking skills and developing proficiency in three genres of security-related briefings. Students will work with the technical, scientific, and/or specialized data, vocabularies, processes, and products of the academic disciplines and/or fields of expertise relevant to national and international security careers.*

| | | |
|---|---|---|
| FC01 | Holly Roberts | Seats (Total: 20) |
| | F 1:00pm - 4:00pm | KEY 0117 |
| | *Restricted to students in Freshmen Connection.* | |

**BSST386** **Experiential Learning in Terrorism Studies**

(Perm req)

*This course will supplement student's experiential learning experience, or internship in the field of terrorism studies and homeland security with guided reflection on their experiences.*

| | | |
|---|---|---|
| 0101 | Mistylynn Day | Seats (Total: 35) |
| | Class time/details on ELMs | ONLINE |
| | *Registration by Departmental Permission Only* | |

**BSST389** **Internship in Terrorism Studies**

*Supplements student's experiential learning experience, or internship in the field of terrorism studies and homeland security, with guided reflection on their experiences.*

**Contact department for information to register for this course.**

**BSST630** **Motivations and Intents of Terrorists and Terrorist Groups**

*Examines motivations for terrorism from an interdisciplinary perspective, with emphasis on political and applied social psychological perspective. Topics may include: defining terrorism; preconditions; recruitment; domestic and international terrorism; and case studies and analysis of terrorist organizations.*

| | | |
|---|---|---|
| PWT1 | Thomas Guarrieri | Seats (Total: 30) |
| | Tu 6:00pm - 8:30pm<br>Class time/details on ELMs | ONLINE<br>ONLINE |

*Must be in the Graduate Programs in Security and Terrorism Studies or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.*

**BSST634** **Legal and Criminal Approaches to Counterterrorism**

*The United States and many of her allies have challenged long-standing legal boundaries in their effort to combat terrorism. This course examines these responses, including: increased criminalization of terrorism related activities; aggressive criminal prosecutions; detention of suspected terrorists indefinitely in far-off prisons; implementation of enhanced interrogation techniques; launch of drones to kill alleged terrorists, even U.S. citizens; and deployment of a vast system of mass surveillance.*

| | | |
|---|---|---|
| PWT1 | Jeffrey Davis | Seats (Total: 30) |
| | M 7:00pm - 8:30pm<br>Class time/details on ELMs | ONLINE<br>ONLINE |

*Must be in the Graduate Programs in Security and Terrorism Studies or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.*

**BSST635** **Countering Violent Extremism: Policy and Practice**

*In recent years, the understanding of how and why individuals engage in violent extremism and terrorism has evolved and become more nuanced, as have the tools to mitigate these threats. A field of policy and practice called Countering Violent Extremism (CVE) has emerged that focuses on countering the pull of terrorist recruitment and influence by building resilience among populations vulnerable to radicalization.*

| | | |
|---|---|---|
| PWT1 | Sandra Scham | Seats (Total: 30) |
| | W 6:00pm - 8:30pm<br>Class time/details on ELMs | ONLINE<br>ONLINE |

*Must be in the Graduate Programs in Security and Terrorism Studies or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.*

**BSST640** **Theories of Security and Terrorism Studies**

*Additional information: Priority enrollment will be given to students in the MPS in Security and Terrorism Studies program.*

*Security and Terrorism Studies is a broad field that includes relevant theoretical voices from across the social sciences, philosophy, and policy. This course will mainly pull from sociological, psychological, and political science (international relations) theory to help students understand the theoretical foundation for the field and for their research. Specific topics may include discussion of power dynamics, ideology, violence, conflict, realist perspectives, and critical perspectives.*

| | | |
|---|---|---|
| PWT1 | Marcus Boyd | Seats (Total: 30) |
| | M 6:00pm - 8:30pm<br>Class time/details on ELMs | ONLINE<br>ONLINE |
| | *Must be in the Graduate Programs in Security and Terrorism Studies or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.* | |

**BSST650** **Foundations of Insider Risk Management & Mitigation**

*The risks posed by trusted insiders to organizations in both the public and private sector are well documented. Past compromises of national security information have provided sensitive information to US adversaries; theft or compromise of proprietary data and intellectual property has impacted businesses large and small; and, incidents of workplace violence perpetrated by insiders are on the rise. This course provides context for the counter insider threat mission and explores multi-disciplinary insider risk management concepts. The course addresses matters of policy, political and socio-economic impacts, psychological factors, and gives special consideration to issues of cyber insider threat, privacy and civil liberties, kinetic violence, and related social and behavioral science research.*

| | | |
|---|---|---|
| PWT1 | Steve Sin | Seats (Total: 30) |
| | Th 6:00pm - 8:30pm<br>Class time/details on ELMs | ONLINE<br>ONLINE |
| | *Must be in the Graduate Programs in Security and Terrorism Studies or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.* | |

**BSST651** **The Psychology of Malicious Insiders**

*Multidisciplinary perspectives on intentional, malicious behavior by insiders. Reviews theoretical foundations from social psychology, personality psychology, psychopathology, and criminology and encourages students to understand Insider Threat (InT) behaviors through case conceptualization/formulation. Emphasis shall be placed on understanding the "fit" between different strategies for interviewing, investigating, early warning, monitoring, and mitigation, as well as the dynamics of a given case.*

| | | |
|---|---|---|
| PWT1 | Anthony Kraemer | Seats (Total: 30) |
| | W 6:00pm - 8:30pm<br>Class time/details on ELMs | ONLINE<br>ONLINE |
| | *Must be in the Graduate Programs in Security and Terrorism Studies or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.* | |

**BSST697** **Capstone**

(Perm req)

*Restriction: Students must be currently enrolled in their final semester of the MPTS program and have completed a minimum of 27 program credits.*

*The capstone course allows MPS students the ability to take what they have learned throughout their coursework and apply theories, methods, analysis, and policy in the form of a final project. The project can originate from work experience or the student's interests. Projects will be developed in conjunction with a member of the graduate faculty who will oversee the student's progress. By the end of the semester, each student is expected to have completed their individual project. The project should further the student's intellectual and career goals and can take the form of practical analysis, policy, or a more academic approach. Students will present their capstone project in written form and will also be required to present their research via an online colloquium. Students are expected to meet with a capstone advisor at least once a week and will devote considerable time developing the project individually.*

| | | |
|---|---|---|
| PWT1 | Thomas Guarrieri | Seats (Total: 30) |
| | Class time/details on ELMs | ONLINE |
| | *Must be in the Graduate Programs in Security and Terrorism Studies. Registration by Departmental Permission Only. Email education-start@umd.edu for inquiries. Golden ID students are not eligible for this section.* | |

# BUAC Accounting and Information Assurance Fall 2024

*All BUAC courses are for MS in Accounting students unless otherwise noted.*

**BUAC707** **Financial Statement Analysis for Accountants and Auditors**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUAC780 or BUAC707. Formerly: BUAC780.*

*Provides students with the tools to conduct a financial statement analysis, which is part of an overall business analysis. This involves understanding and using the information that financial statements are communicating to users.*

| | | |
|---|---|---|
| 0501 | Nick Seybert<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 2:00pm - 3:50pm | Seats (Total: 0)<br><br>VMH 1202 |
| 0502 | Nick Seybert<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 4:00pm - 5:50pm | Seats (Total: 0)<br><br>VMH 1202 |

**BUAC710** **Advanced Managerial Accounting and Control Systems**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUAC782 or BUAC710. Formerly: BUAC782.*

*Focuses on topics that emphasize the role of managerial accounting in a firm's overall management planning and control structure. A key concern is to show how effective organizations ensure that the parts of the organization work together to create the whole, and how the sum of the parts, through synergy, can indeed be greater then the whole.*

| | | |
|---|---|---|
| 0501 | Naman Desai<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 2:00pm - 3:50pm | Seats (Total: 0)<br><br>VMH 1528 |
| 0502 | Naman Desai<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 12:00pm - 1:50pm | Seats (Total: 0)<br><br>VMH 1528 |

**BUAC712** **Business Communications for Accountants and Auditors**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUAC784 or BUAC712. Formerly: BUAC784.*

*Focuses on the art of communication and its effects on people, organizations, and other stakeholders. The course will focus on two aspects of business communications: persuasion and effective presentations. The objective for the persuasion sessions is to have students improve upon their day-to-day oral business communications skills. This will be accomplished as participants learn to tailor each communication to the person or people with whom they are speaking.*

| | | |
|---|---|---|
| 0501 | Samuel Handwerger<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 10:00am - 11:50am<br>Contact instructor or department for details. | Seats (Total: 0)<br><br>VMH 2505 |
| 0502 | Samuel Handwerger<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 8:00am - 9:50am<br>Contact instructor or department for details. | Seats (Total: 0)<br><br>VMH 2505 |

**BUAC716** **Auditing Automation and Analytics**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith.*

*Auditing theory and the functions of the independent auditor in the financial market. As part of the class, the students will cover issues related to auditing large databases and audit analytics of large database. Moreover, the students will study audit automation and the use of artificial intelligence (AI) and Robotic process in the auditing market.*

| | | |
|---|---|---|
| 0501 | James McKinney<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 4:00pm - 5:50pm<br>Contact instructor or department for details. | Seats (Total: 0)<br><br>VMH 2505 |

**BUAC721** **Business Law for Managers**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI764 or BUAC721.*

*Survey of United States legal institutions and processes as well as substantive areas of the law that affect business. Examination of tort and contract law, the legal forms of business organization and legal liability and major regulatory laws that affect business.*

| | | |
|---|---|---|
| 0501 | Jon Crocker<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 10:00am - 11:50am | Seats (Total: 0)<br><br>VMH 2505 |

**BUAC722** **Applied Research for Accounting and Auditing**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith.*

*Designed to give accounting masters students exposure to and appreciation of the various types of research that are undertaken by accounting and auditing professionals, including CPAs, financial analysts and academics. Accounting research will be studied as it relates to financial accounting standards, auditing standards, gaining understanding of a business and industry, and to a very limited extent tax and academic research. Students will gain experience working with professional accounting research databases as well as other databases that are useful for accounting research. Auditors and corporate preparers of financial statements need to know how to determine current GAAP and GAAS as they confront new issues and as standards evolve and change. Professionals need to understand how the standards are derived and how to analyze policy alternatives. Additionally, students will also explore the process of researching a business or industry in preparation for an audit.*

| | | |
|---|---|---|
| 0501 | James McKinney | Seats (Total: 0) |
| | **Meets October 21, 2024 - December 10, 2024** | |
| | MW 4:00pm - 5:50pm | VMH 2505 |

**BUAC731** **Intermediate Accounting I**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUAC758L or BUAC731. Formerly: BUAC758L.*

*The first part of a three-series set of courses on intermediate accounting; presents an in-depth analysis of financial accounting and reporting theory and practice that will enhance student understanding of financial information used in making effective management decisions. For each topic included in the series, this course presents a review of the underlying business transactions that require accounting along with a review the technical details of U.S. Generally Accepted Accounting Principles (GAAP) and applicable International Financial Reporting Standards (IFRS). The course covers the informational needs of managers, securities analysts, investors and creditors, applicable to a variety of business transactions and events. The course includes materials helpful to students planning to take the CPA Examination. Intermediate Accounting I focuses on financial accounting standards, the conceptual framework of accounting, the accounting information system, the balance sheet, income statement, statement of cash flows, time value of money concepts and revenue recognition.*

| | | |
|---|---|---|
| 0501 | Sean Cao | Seats (Total: 0) |
| | **Meets October 21, 2024 - December 10, 2024** | |
| | MW 2:00pm - 3:50pm | VMH 2505 |

**BUAC740** **Data Driven Decision Making**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith.*

*Proficiency in the art of analyzing data to support decision-making is critical for business professionals. In this course, we will explore basic analytical principles that can assist a manager to extract information from raw data and model complex decision problems with quantitative methods. A good outcome does not necessary imply a good decision, a good outcome can be a matter of luck. A good decision is founded on sound reasoning and considers all the information available at the time of the decision.*

| | | |
|---|---|---|
| 0501 | Tunay Tunca<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 12:00pm - 1:50pm<br>Contact instructor or department for details. | Seats (Total: 0)<br><br>VMH 1528 |
| 0502 | Tunay Tunca<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 10:00am - 11:50am | Seats (Total: 0)<br><br>VMH 1528 |

**BUAC746** **Systems for Data Analysis**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business. Credit only granted for: BUAC758S or BUAC746. Formerly: BUAC758S.*

*Since the data grows exponentially and becomes complex, we need computational methods to collect, store, and analyze them in order to be successful in business, management, science, engineering, and other professions. This course is an introductory data class that meets this need. Class teaches how to analyze and model data, how to define and manipulate database, how to write computer programs in Python language to solve real-world problems, and how to use Tableau to explain your results as a report in a more readable way. This will be useful in your career and your research in the future. This course introduces the conceptual and logical designs of relational database systems and their uses in business environments. Topics include information modeling, optimization via normalization, data definition and manipulation languages, client/server architectures, concurrency and recovery, and data warehousing.*

| | | |
|---|---|---|
| 0501 | Lu Zhang<br>**Meets October 21, 2024 - December 10, 2024**<br>MW 10:00am - 11:50am | Seats (Total: 0)<br><br>VMH 2505 |

| | | |
|---|---|---|
| 0502 | Lu Zhang<br>**Meets October 21, 2024 - December 10, 2024**<br>MW 12:00pm - 1:50pm | Seats (Total: 0)<br><br>VMH 1520 |

**BUAC758A** **Special Topics in Accounting and Information Assurance; Accounting for Income Tax and Database Management**

(Perm req)

*Selected advanced topics in the various fields of graduate study in accounting and information assurance.*

| | | |
|---|---|---|
| 0501 | Darian Harnish<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 6:00pm - 7:50pm<br>Contact instructor or department for details. | Seats (Total: 0)<br><br>VMH 2505 |

**BUAC758Y** **Special Topics in Accounting and Information Assurance; AI Literacy: Business Data and AI Applications**

(Perm req)

*Selected advanced topics in the various fields of graduate study in accounting and information assurance.*

| | | |
|---|---|---|
| 0501 | Lei Zhou, Sean Cao<br>**Meets October 21, 2024 - December 10, 2024**<br>MW 6:00pm - 7:50pm | Seats (Total: 0)<br><br>VMH 1202 |

**BUAC759** **Independent Study in Accounting and Information Assurance**

(Perm req)

*Independent study for masters students in accounting and information assurance.*

**Contact department for information to register for this course.**

**BUAC762** **Tax I: Taxation of Individuals & Forecasting Analytics**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business.*

*Federal taxation of individuals focusing on income, exclusions, deductions, depreciation, credits and capital transactions including home ownership. Property coverage includes the tax consequences of sales and dispositions of personal use assets, investment and business assets. Both tax planning and compliance issues are also covered. In addition the course covers waged based and equity-based compensation, taxable and nontaxable benefits as well as deferred compensation and various retirement plans. In addition, students will learn how to utilize regression analysis and scenario analysis to provide additional insights about these tax topics and to forecast future effective tax rates.*

| | | |
|---|---|---|
| 0501 | Brian Jefferson<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 2:00pm - 3:50pm | Seats (Total: 0)<br><br>VMH 2505 |

**BUAC764** **Tax II: Taxation of Corporations & Other Entities**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUAC758V or BUAC764. Formerly: BUAC758V.*

*Students have the opportunity to gain an understanding of the basic tax competencies required for determining the appropriate tax structure for businesses; issue identification; active listening; solving tax problems.*

| | | |
|---|---|---|
| 0501 | Brian Jefferson<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 4:00pm - 5:50pm | Seats (Total: 0)<br><br>VMH 2505 |

**BUAC772** **Database Management and State and Local Taxation**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business.*

*Covers the tax implications of doing business in the United States across state lines, resulting in multiple taxation under the Commerce Clause of the United States Constitution. The course focuses on nexus or jurisdictional due process (which gives states the right to tax business profits), allocation and apportionment formulas of multi state income, business versus non-business income, privilege tax and discrimination. Also explored are the current tax developments under the Import-Export clause of the United States Constitution, taxation based on class legislation and the Equal Protection Clause, the multi-state tax compact, unitary concept, residence definitions, nonresident income sources, tax credits and short-period returns for individual income taxpayers, sales of tangible personal property, and retail and wholesale sales. The course examines valuation techniques for real and personal property. Students will learn the skills needed to understand and identify many aspects of the state income tax apportionment process. Focus will be placed on calculations and analyses required to present the state and local tax information in such a manner as to assist upper management in the business expansion decision-making process. The tax apportionment process requires a solid understanding of database management and we will utilize tools that are considered required knowledge in today's tax departments.*

| | | |
|---|---|---|
| 0501 | Samuel Handwerger<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 6:00pm - 7:50pm | Seats (Total: 0)<br><br><br>VMH 2505 |

# BUDT Decision and Information Technologies Fall 2024

**BUDT700** **Business Communication**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business. Credit only granted for: BUDT758A or BUDT700. Formerly: BUDT758A.*

*Consists of written and oral base-line assessments. Students will meet with Program administrators to receive feedback on these assessments and create an individualized development plan. Workshops and core course assignments, Smith-related activities and CMP assignments.*

| | | |
|---|---|---|
| 0506 | Cary Gillett<br>**Meets August 26, 2024 - October 14, 2024**<br>W 7:00pm - 8:50pm<br>Class time/details on ELMs | Seats (Total: 0)<br><br><br>VMH 1333<br>ONLINE |
| 0507 | Cary Gillett<br>**Meets August 26, 2024 - October 14, 2024**<br>Th 7:00pm - 8:50pm<br>Class time/details on ELMs | Seats (Total: 0)<br><br><br>VMH 1330<br>ONLINE |

**BUDT702** **Database Management Systems**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business.*

*Introduction to the conceptual, logical and physical design of relational database systems and their use in business environments. Topics include information modeling and optimization via normalization; Structured Query Language (SQL); Data Warehousing.*

| | | |
|---|---|---|
| 0501 | Woei-jyh Lee<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 10:00am - 11:50am | Seats (Total: 0)<br><br>VMH 1202 |
| 0502 | Woei-jyh Lee<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 12:00pm - 1:50pm | Seats (Total: 0)<br><br>VMH 1202 |

**BUDT703** **Database Management Systems**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business. Credit only granted for: BUDT758Y OR BUDT703. Formerly: BUDT758Y.*

*Introduction to the conceptual, logical and physical design of relational database systems and their use in business environments. Topics include information modeling and optimization via normalization; Structured Query Language (SQL); Data Warehousing.*

| | | |
|---|---|---|
| 0506 | Woei-jyh Lee<br>**Meets August 26, 2024 - December 9, 2024**<br>TuTh 8:00am - 9:15am | Seats (Total: 0)<br><br>VMH 1333 |
| 0507 | Woei-jyh Lee<br>**Meets August 26, 2024 - December 9, 2024**<br>TuTh 9:30am - 10:45am | Seats (Total: 0)<br><br>VMH 1333 |

**BUDT704** **Data Processing and Analysis in Python**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business. Credit only granted for: BUDT758X OR BUDT704. Formerly: BUDT758X.*

*An introduction to the Python programming language for the purpose of processing, analyzing, and visualizing data. In addition, students will be introduced to developing basic regression, optimization, and simulation models in Python, using highly popular packages. Course emphasis is on mastering basic Python functionality and developing intermediate to advanced skills in working with data, through instruction and active learning.*

| | | |
|---|---|---|
| 0501 | Manmohan Aseri<br>**Meets August 26, 2024 - December 9, 2024**<br>TuTh 5:00pm - 6:15pm | Seats (Total: 0)<br><br>VMH 1505 |
| 0502 | Manmohan Aseri<br>**Meets August 26, 2024 - December 9, 2024**<br>TuTh 6:30pm - 7:45pm | Seats (Total: 0)<br><br>VMH 1505 |
| 0506 | Peng Huang<br>**Meets August 26, 2024 - December 9, 2024**<br>MW 2:00pm - 3:15pm | Seats (Total: 0)<br><br>VMH 1333 |
| 0507 | Peng Huang<br>**Meets August 26, 2024 - December 9, 2024**<br>MW 3:30pm - 4:45pm | Seats (Total: 0)<br><br>VMH 1333 |

**BUDT705** **Data Visualization for Business**

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith.*

*An introduction to data visualization techniques. Data-driven decisions are increasingly embedded in business organizations, so professionals must be able to explore and communicate data with understandable and powerful visualizations.*

| | | |
|---|---|---|
| 0501 | Xiaojia Guo<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 12:00pm - 1:50pm | Seats (Total: 40)<br><br>VMH 1528 |

| | | |
|---|---|---|
| 0502 | Xiaojia Guo<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 2:00pm - 3:50pm | Seats (Total: 40)<br><br>VMH 1528 |

**BUDT721** **Digital Transformation in Business**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business. Credit only granted for: BUDT758E or BUDT721. Formerly: BUDT758E.*

*Introduces students to the strategic role of digital transformation within businesses, and provides an overview for how major information technologies may be used to inform and transform the firm's strategic, operational, and tactical decisions. Topics discussed in the course include the strategic use of digital technologies to generate sustainable competitive value; the contributions of new forms of technology infrastructure; the evaluation of new technology investments and the resulting ROI; acquiring, managing and governing technological capabilities within the firm; understanding the role of enterprise systems and social technologies within the firm; and the management of disruptive technologies within and outside the firm.*

| | | |
|---|---|---|
| 0501 | Tejwansh Anand<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 12:00pm - 1:50pm | Seats (Total: 0)<br><br>VMH 1511 |
| 0502 | Tejwansh Anand<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 2:00pm - 3:50pm | Seats (Total: 0)<br><br>VMH 1511 |
| 0504 | Tejwansh Anand<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 10:00am - 11:50am | Seats (Total: 0)<br><br>VMH 1511 |

**BUDT722** **Managing Digital Business Markets**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith. Credit only granted for: BUDT758G or BUDT722. Formerly: BUDT758G.*

*The objective is to understand the strategic and tactical issues involved in managing digital businesses and markets. Also, some of the characteristics of digital businesses and markets that make them unique and understand how companies can best manage them will be examined.*

| | | |
|---|---|---|
| 0501 | Siva Viswanathan<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 2:00pm - 3:50pm | Seats (Total: 0)<br><br>VMH 1511 |
| 0502 | Siva Viswanathan<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 2:00pm - 3:50pm | Seats (Total: 0)<br><br>VMH 1511 |
| 0504 | Siva Viswanathan<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 12:00pm - 1:50pm | Seats (Total: 0)<br><br>VMH 1511 |

**BUDT724** **Project Management in Dynamic Environments**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith.*

*Addresses project management skills that are required by successful managers in increasingly competitive and faster-moving environments. Examines fundamental concepts of successful project management, and the technical and managerial issues, methods, and techniques.*

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|---|---|---|
| 0501 | Paul Shapiro<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 2:00pm - 3:50pm | Seats (Total: 0)<br><br>VMH 2202 |
| 0502 | Paul Shapiro<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 4:00pm - 5:50pm | Seats (Total: 0)<br><br>VMH 2202 |
| 0504 | Paul Shapiro<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 12:00pm - 1:50pm | Seats (Total: 0)<br><br>VMH 2202 |

**BUDT730** **Data Models and Decisions**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith. Credit only granted for: BUSI758B, BUDT758Q or BUDT730. Formerly: BUDT758Q.*

*Analytical modeling of business decisions; uncertainty, risk and expected utility; regression modeling to infer relationships among variables.*

| | | |
|---|---|---|
| 0506 | Sujin Kim<br>**Meets August 26, 2024 - December 9, 2024**<br>TuTh 11:00am - 12:15pm | Seats (Total: 0)<br><br>VMH 1333 |
| 0507 | Sujin Kim<br>**Meets August 26, 2024 - December 9, 2024**<br>TuTh 12:30pm - 1:45pm | Seats (Total: 0)<br><br>VMH 1333 |

**BUDT731** **Data, Models, and Decisions Using R**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business.*

*Analytical modeling of business decisions; uncertainty, risk and expected utility; regression modeling to infer relationships among variables.*

| | | |
|---|---|---|
| 0501 | Sujin Kim<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 12:00pm - 1:50pm | Seats (Total: 0)<br><br>VMH 1520 |
| 0502 | Sujin Kim<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 2:00pm - 3:50pm | Seats (Total: 0)<br><br>VMH 1520 |

**BUDT732** **Decision Analytics**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith. Credit only granted for: BMGT732, BUDT758P or BUDT732. Formerly: BMGT732 and BUDT758P.*

*Analytical modeling for managerial decisions using a spreadsheet environment. Includes linear and nonlinear optimization models, decision making under uncertainty and simulation models.*

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|---|---|---|---|
| 0506 | Alexander Estes<br>**Meets August 26, 2024 - December 9, 2024**<br>MW 9:30am - 10:45am | Seats (Total: 0)<br><br>VMH 1511 | |
| 0507 | Alexander Estes<br>**Meets August 26, 2024 - December 9, 2024**<br>MW 11:00am - 12:15pm | Seats (Total: 0)<br><br>VMH 1511 | |

**BUDT733** **Data Mining and Predictive Analytics**

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business.*

*With vast quantities of data being generated, including new types of data such as web traffic, social network data, and reviews and comments on websites, "big data" and "analytics" are important topics. Data, when used correctly, can create a competitive edge for firms. Advances in computing hardware and algorithms have improved the quality of predictions and effectiveness of predictive business applications. Expertise in working with data, and deep knowledge of data mining/machine learning methods, is a sought-after skill. This course introduces key tools and techniques of data mining: classification, prediction, cluster analysis, and text mining. The methods covered are linear and logistic regression, k-nearest neighbors, naive Bayes, classification and regression trees, ensemble methods, neural networks, k-Means and hierarchical clustering, and association rules. The course will focus on business applications, with examples from Marketing, Finance, Healthcare, and Operations.*

| | | | |
|---|---|---|---|
| 0504 | Jessica Clark<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 2:00pm - 3:50pm | Seats (Total: 0)<br><br>VMH 2202 | |

**BUDT738** **Industry Seminar**

(Perm req)

*This experiential course will be offered in the Fall and Spring Semester of the first year to provide students exposure to career paths, real-world technology challenges faced by business and how these challenges are overcome. UMD Smith alumni will host weekly interactive learning discussions.*

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|---|---|---|---|
| 0501 | John Bono, Tejwansh Anand<br>**Meets August 26, 2024 - December 9, 2024**<br>F 11:30am - 1:00pm<br>F 1:00pm - 1:30pm | Seats (Total: 0)<br><br>ONLINE<br>ONLINE | <br><br><br>Discussion |

| | | | |
|---|---|---|---|
| 0502 | Tejwansh Anand, John Bono<br>**Meets August 26, 2024 - December 9, 2024**<br>F 11:30am - 1:00pm<br>F 1:00pm - 1:30pm | Seats (Total: 0)<br><br><br>ONLINE<br>ONLINE | <br><br><br><br>Discussion |
| 0504 | Tejwansh Anand, John Bono<br>**Meets August 26, 2024 - December 9, 2024**<br>F 11:30am - 1:00pm<br>F 1:00pm - 1:30pm | Seats (Total: 0)<br><br><br>ONLINE<br>ONLINE | <br><br><br><br>Discussion |

**BUDT748** **Industry Practicum**

*This capstone course will provide students an opportunity to work on a real-world project where they will work with a company to use technology to solve a business problem.*

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|---|---|---|---|
| 0501 | Paul Shapiro<br>MW 9:30am - 10:45am | Seats (Total: 48)<br>TYD 1118 | |
| 0502 | Minoo Modaresnezhad<br>TuTh 9:30am - 10:45am | Seats (Total: 0)<br>VMH 3505 | |
| 0503 | Minoo Modaresnezhad<br>TuTh 8:00am - 9:15am | Seats (Total: 0)<br>VMH 3505 | |
| 0504 | Paul Shapiro<br>MW 5:00pm - 6:15pm | Seats (Total: 30)<br>VMH 3505 | |

**BUDT756** **Causal Inference & A/B Testing**

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business.*

*Organizations and policymakers in government constantly grapple with such causal questions. For example, firms want to know how does a price change affect the sales of a product, or how to design websites and platforms that increase consumer engagement and lead generation; political parties want to know what on social media sites can boost their political influence, and governments want to know whether allowing parents to pay for private schools using publicly funded vouchers make the education system more effective. In particular, platforms such as Netflix, Airbnb, eBay, Groupon, Booking.com, Uber, Amazon, etc. make extensive and continuous use of A/B tests and have a dedicated team of data scientists and IT-personnel to implement, monitor and analyze such tests. Banks and Insurance companies constitute another important sector where the use of A/B testing is ubiquitous.*

| | | |
|---|---|---|
| 0501 | Jui Ramaprasad<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 12:00pm - 1:50pm | Seats (Total: 40)<br><br>VMH 2505 |
| 0502 | Jui Ramaprasad<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 2:00pm - 3:50pm | Seats (Total: 40)<br><br>VMH 2505 |

**BUDT757** **Cybersecurity**

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business.*

*Distributed technologies and the ability of business to capture increasing amounts of sensitive data have increases the stakes and risks for information security. The focus of this course will be to help students understand cybersecurity frameworks, analytic techniques and enterprise risk management.*

| | | |
|---|---|---|
| 0501 | Minoo Modaresnezhad<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 2:00pm - 3:50pm | Seats (Total: 40)<br><br>VMH 3505 |
| 0502 | Minoo Modaresnezhad<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 4:00pm - 5:50pm | Seats (Total: 40)<br><br>VMH 3505 |

**BUDT758I** **Special Topics in Decision, Operations and Information Technologies; Applied Finance Information Systems**

*Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.*

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|---|---|---|
| 0501 | Harish Neelakandan<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 4:00pm - 5:50pm | Seats (Total: 40)<br><br>VMH 1336 |
| 0502 | Harish Neelakandan<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 6:00pm - 7:50pm | Seats (Total: 40)<br><br>VMH 1336 |

**BUDT758L** **Special Topics in Decision, Operations and Information Technologies; Price Optimization & Revenue Management**

(Perm req)

*Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.*

For MS in Business Analytic students only.

| | | |
|---|---|---|
| 0506 | Yi Xu<br>**Meets August 26, 2024 - December 9, 2024**<br>TuTh 3:30pm - 4:45pm | Seats (Total: 0)<br><br>VMH 1330 |
| 0507 | Yi Xu<br>**Meets August 26, 2024 - December 9, 2024**<br>TuTh 5:00pm - 6:15pm | Seats (Total: 0)<br><br>VMH 1330 |

**BUDT758M** **Special Topics in Decision, Operations and Information Technologies; Healthcare Information Systems**

*Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.*

For MS in Information Systems students only.

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|---|---|---|
| 0501 | Kenyon Crowley<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 4:00pm - 5:50pm<br>*For MS in Information Systems students only.* | Seats (Total: 40)<br><br>VMH 1511 |

**BUDT758W** **Special Topics in Decision, Operations and Information Technologies; Capstone Project in Business Analytics**

(Perm req)

*Selected advanced topics in the various fields of graduate study in decision, operations and information technologies.*

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|---|---|---|
| 0506 | Suresh Acharya<br>**Meets August 26, 2024 - December 9, 2024**<br>M 4:00pm - 6:40pm<br>*For MS in Business Analytics students only.* | Seats (Total: 0)<br><br>VMH 1303 |

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|---|---|---|---|
| 0507 | Suresh Acharya<br>**Meets August 26, 2024 - December 9, 2024**<br>M 7:00pm - 9:40pm | Seats (Total: 0)<br><br>VMH 1303 | |

**BUDT759** **Independent Study in Decision and Information Technologies**

(Perm req)

*Independent study for masters students in decision and information technologies.*

**Contact department for information to register for this course.**

# BUFN Finance Fall 2024

*600 and 700 level courses with the BUFN prefix are offered only for students in the Master of Finance and Master of Quantitative Financ programs.*

**BUFN400** **Introduction to Financial Markets and Financial Datasets**

(Perm req)

*Prerequisite: STAT400, STAT401, STAT410, or STAT420. Recommended: CMSC320, CMSC351, MATH240, and MATH241; and should have extensive familiarity with Python including Pandas, Numpy, Scipy, Matplotlib; and familiarity with probability and statistics, econometric modeling. Restriction: By Permission Only.*

*Provides an overview of financial concepts and markets and datasets. Company financial statements will be used to review concepts including earnings, cash flow, accruals, investment, dividends, etc. The course will introduce concepts related to portfolio theory and asset pricing. It will introduce the fundamentals of the stock market and market microstructure, including bid ask spreads and market liquidity. Advanced topics include event studies, high frequency trading, Over The Counter (OTC) bond markets, and more specialized institutional arrangements including repo markets and foreign currency exchange markets.*

| | | | |
|---|---|---|---|
| 0101 | Albert Kyle<br>MW 2:00pm - 3:15pm<br>F 11:00am - 11:50am | Seats (Total: 20)<br>TMH 0225<br>MTH 0405 | <br><br>Discussion |
| 0102 | Albert Kyle<br>MW 2:00pm - 3:15pm<br>F 2:00pm - 2:50pm | Seats (Total: 20)<br>TMH 0225<br>EGR 2116 | <br><br>Discussion |

**BUFN401** **Option Theory and Derivatives**

(Perm req)

*Prerequisite: BUFN400.*

*Will introduce Option Theory and the concept of a derivative financial contract whose value is based on some underlying asset, e.g., a stock or bond or commodity. Option theory based pricing models are a cornerstone of modern finance. Unlike the Capital Asset Pricing Model (CAPM) that determines an appropriate rate of return, option theory primarily relies on arbitrage arguments, and the probability that an option will be exercised during some time interval. Option theory has been very successful empirically. Common derivative types include stock and bond and index options, futures contracts, forward contract and swaps.*

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|---|---|---|
| 0101 | Steven Heston<br>TuTh 12:30pm - 1:45pm | Seats (Total: 35)<br>VMH 1518 |

**BUFN610** **Financial Management**

(Perm req)

*Restriction: Permission of BMGT-Robert H. Smith School of Business; or must be in Business and Management (Master's) program. Credit only granted for: BUSI640, BUFN610, or BMGT610.*

*The fundamental concepts and techniques used to evaluate corporate decisions. Topics include the time value of money, valuation of common securities, investment decisions, capital budgeting, capital structure, and the weighted average cost of capital. The objectives are to develop the ability to make investment decisions, manage project finances, and analyze financial decisions.*

| | | |
|---|---|---|
| 0501 | Liu Yang<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 12:00pm - 1:50pm | Seats (Total: 0)<br><br>VMH 1336 |
| 0505 | Liu Yang<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 10:00am - 11:50am | Seats (Total: 0)<br><br>VMH 1336 |

**BUFN620** **Capital Markets**

(Perm req)

*Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUFN740 or BUFN620. Formerly: BUFN740.*

*Covers modern theories and techniques for analyzing investments in different securities. Introduces mathematical and statistical models to price securities and guide investment decisions. The main topics covered are portfolio theory, pricing models, market efficiency, fixed income investment, and options.*

For Master of Finance students only.

| | | |
|---|---|---|
| 0501 | Sarah Kroncke<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 2:00pm - 3:50pm | Seats (Total: 0)<br><br>VMH 1336 |

**BUFN630** **Valuation in Corporate Finance**

(Perm req)

*Prerequisite: BUFN610. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUFN630, BUFN714, BUFN750, BUFN753, or BMGT730. Formerly: BUFN750.*

*An advanced corporate finance course focusing on valuation. The main objective is to apply the concepts covered in the introductory finance class through real-life applications (cases) and use valuation estimates to guide and communicate investment decisions. The topics include building Pro Forma statements and forecasting future cash flows, dynamic cash flow models, estimating the cost of capital, implementing the Weighted Average Cost of Capital (WACC) and Adjusted Present Value (APV) methods, and using real options techniques (binomial and Black and Scholes models as well as Monte Carlo simulations) to value companies and projects.*

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|---|---|---|
| 0501 | Liu Yang<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 12:00pm - 1:50pm | Seats (Total: 0)<br><br>VMH 1520 |
| 0505 | Liu Yang<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 10:00am - 11:50am | Seats (Total: 0)<br><br>VMH 1520 |

**BUFN640** **Financial Data Analytics**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUFN758N of BUFN640. Formerly: BUFN758N.*

*Introduces the skills and computing languages for analyzing financial data and testing financial models. Covers topics such as the ordinary least square regression (OLS) estimator, its properties and applications, statistical inference, and univariate and multivariate analysis. The focus is on working with data and applying econometric models to financial applications such as estimating asset pricing models, portfolio choice, and the efficient frontier. The course will use Python programming language, Google Colab environment, and matching learning packages.*

| | | |
|---|---|---|
| 0501 | Serhiy Kozak<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 10:00am - 11:50am<br>Contact instructor or department for details. | Seats (Total: 0)<br><br>VMH 1336 |
| 0502 | Serhiy Kozak<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 12:00pm - 1:50pm<br>Contact instructor or department for details. | Seats (Total: 0)<br><br>VMH 1336 |

**BUFN650** **Machine Learning in Finance**

(Perm req)

*Prerequisite: BUFN640. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUFN758O or BUFN650. Formerly: BUFN758O.*

*A hands-on course on applications of cutting-edge machine learning methods to financial modeling. It builds on the Financial Analytics class to introduce students to a wide variety of machine learning techniques ranging from lasso regression to deep learning and TensorFlow. The course provides the basic ideas and intuition behind these methods, a more formal understanding of how and why they work, and opportunities to experiment with machine-learning algorithms and apply them to big data modeling in finance. It will use the Python programming language, Google Colab environment, and machine learning packages.*

| | | |
|---|---|---|
| 0501 | Serhiy Kozak<br>**Meets October 21, 2024 - December 10, 2024**<br>MW 10:00am - 11:50am | Seats (Total: 0)<br><br>VMH 1336 |
| 0502 | Serhiy Kozak<br>**Meets October 21, 2024 - December 10, 2024**<br>MW 12:00pm - 1:50pm | Seats (Total: 0)<br><br>VMH 1336 |

**BUFN660** **Derivative Securities**

(Perm req)

*Prerequisite: BUFN610. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUFN660, BUFN726, BUFN761 or BUFN773. Formerly: BUFN761.*

*Introduces standard derivative contracts, including forwards and futures, swaps, and options. Covers the mathematical foundation of valuing derivative contracts, the use of static and dynamic replication strategies, and the concept of no-arbitrage. Derivative securities on various underlying assets (equities, indices, commodities, foreign exchange, etc.) are analyzed using different application contexts.*

| | | |
|---|---|---|
| 0501 | Steven Heston<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 2:00pm - 3:50pm | Seats (Total: 0)<br><br>VMH 1336 |
| 0502 | Steven Heston<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 4:00pm - 5:50pm | Seats (Total: 0)<br><br>VMH 1336 |

**BUFN717** **Entrepreneurial Finance and Private Equity**

*Prerequisite: BUFN610. Restriction: Permission of BMGT-Robert H. Smith School of Business; or must be in Business and Management (Master's) program. Credit only granted for: BUFN755 or BUFN717. Formerly: BUFN755.*

*An advanced topics course in Corporate Finance. The major emphasis is how financiers help growing firms - and in particular young start-ups - using different types of securities at different points in the industry's and firm's life. Financing arrangements and securities studied will include private equity funds and private financings placements, Venture Capital (VC) and preferred equity, Investment Banks through Initial Public Offerings (IPOs), Private equity finds, debt and leveraged buyouts. Students will learn additional techniques that will help them understand how financiers value firms and how to understand, plan and value different financing strategies.*

| | | |
|---|---|---|
| 0501 | Pablo Slutzky<br>**Meets October 21, 2024 - December 10, 2024**<br>MW 10:00am - 11:50am | Seats (Total: 60)<br><br>VMH 2202 |

**BUFN721** **International Investment**

*Prerequisite: BUFN610. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUFN721 or BUFN770. Formerly: BUFN770.*

*Addresses international stock markets, portfolio theory, international interest rates, exchange rates and exchange rate derivatives (options, forwards, and futures), exchange rate swaps and exchange rate exposure (operating, translation, and transaction), foreign investment strategy.*

| | | |
|---|---|---|
| 0501 | Vojislav Maksimovic | Seats (Total: 58) |
| | **Meets August 26, 2024 - October 14, 2024** | |
| | MW 2:00pm - 3:50pm<br>Contact instructor or department for details. | VMH 1336 |

**BUFN734** **Portfolio Management**

*Prerequisite: BUFN610. Restriction: Permission of BMGT-Robert H. Smith School of Business; or must be in Business and Management (Master's) program. Credit only granted for: BUFN734 or BUFN763. Formerly: BUFN763.*

*Provides training that is important in understanding the investment process - the buy side of the financial world. Specifically, the objective is to provide graduate-level instruction in the following topics, both in theory and in using financial markets data to test the basic theory and practice of portfolio choice and equilibrium pricing models and their implications for efficient portfolios.*

| | | |
|---|---|---|
| 0501 | Mark Loewenstein | Seats (Total: 58) |
| | **Meets August 26, 2024 - October 14, 2024** | |
| | TuTh 4:00pm - 5:50pm | VMH 1336 |

**BUFN736** **Quantitative Investment Strategies**

*Prerequisite: BUFN610. Restriction: Must be in a major in BMGT-Robert H. Smith School of Business; or must be in Business and Management (Master's) program. Credit only granted for: BUFN764 or BUFN736. Formerly: BUFN764.*

*Provides an introduction to quantitative techniques of selecting equities, as used commonly among long-short equity hedge funds and other quantitative equity asset management companies. Statistical factor models are developed to locate stocks with higher expected returns, based on the observable characteristics of the stocks. Implementation issues, including statistical estimation, backtesting and portfolio construction, are covered, as is performance evaluation.*

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|---|---|---|
| 0501 | Russell Wermers | Seats (Total: 55) |
| | **Meets October 21, 2024 - December 10, 2024** | |
| | MW 12:00pm - 1:50pm | VMH 1202 |

**BUFN741** **Advanced Capital Markets**

*Prerequisite: BUFN620; or permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUFN758P or BUFN741. Formerly: BUFN758P.*

*This course covers modern theories and techniques for investments and asset pricing. The main topics covered are: portfolio theory, pricing models, market efficiency, fixed income investment, forwards and futures, and options.*

For Master of Quantitative Finance students only.

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|---|---|---|
| 0505 | Kenneth Fuller<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 4:00pm - 5:50pm | Seats (Total: 0)<br><br><br>VMH 2505 |

**BUFN742** **Financial Engineering**

*Prerequisite: BUFN610. Restriction: Permission of BMGT-Robert H. Credit only granted for: BUFN742 or BUFN766. Formerly: BUFN766.*

*Introduces and applies various computational techniques useful in the management of equity and fixed income portfolios and the valuation of financial derivatives and fixed income securities. Techniques include Monte Carlo Simulation and binomial/lattice pricing models. Emphasis is on bridging theory with the design of algorithms and models that can be directly applied in practice.*

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|---|---|---|
| 0501 | George Gao<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 12:00pm - 1:50pm | Seats (Total: 58)<br><br><br>VMH 1336 |

**BUFN758D** **Special Topics in Finance; big data in finance**

*Selected advanced topics in the various fields of graduate study in finance.*

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|---|---|---|
| 0501 | Seokwoo Lee<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 4:00pm - 5:50pm | Seats (Total: 60)<br><br><br>VMH 1528 |

**BUFN758G** **Special Topics in Finance; Investment Fund Management: Mayer Fund**

(Perm req)

*Selected advanced topics in the various fields of graduate study in finance.*

**Contact department for information to register for this course.**

**BUFN758Z** **Special Topics in Finance; Global Equity Fund**

(Perm req)

*Selected advanced topics in the various fields of graduate study in finance.*

**Contact department for information to register for this course.**

**BUFN759** **Independent Study in Finance**

(Perm req)

*Independent study for Masters students in finance.*

By Department Permission Only.

**Contact department for information to register for this course.**

**BUFN768A** **Special Topics in Finance; Experiential Learning Project**

(Perm req)

*Selected experiential learning opportunities in advanced topics in the various fields of graduate study in finance.*

**Contact department for information to register for this course.**

**BUFN768B** **Special Topics in Finance; Experiential Learning Project**

(Perm req)

*Selected experiential learning opportunities in advanced topics in the various fields of graduate study in finance.*

**Contact department for information to register for this course.**

# BULM Logistics, Business, and Public Policy Fall 2024

*Courses with the BULM prefix are offered only for students in the MS in Supply Chain Management program.*

**BULM700** **Business Fundamentals for Supply Chain Managers I**

(Perm req)

*Restriction: Permission of BMGT-Robert H. Smith School of Business; or must be in Business and Management (Master's) program. Credit only granted for: BULM758K or BULM700. Formerly: BULM758K.*

*This course is part of a series of two courses Business Fundamentals for SCM part I and, part II. The series is intended to provide you with the knowledge and skills necessary to quantify the impact of supply chain management decisions on the bottom line. Students will gain a solid understanding of accounting, finance and the link between supply chain and overall financial performance. Students will analyze financial statements and explain the implications of supply chain management decisions on standard financial ratios and all components of the balance sheet and income statement. Through interactive supply chain finance models, students will demonstrate the sensitivity of outcome to multiple independent variables. Last but not least, students will also learn how to apply the net present value technique to evaluate the feasibility of investment projects in supply chain.*

| | | |
|---|---|---|
| 0501 | Humberto Coronado | Seats (Total: 0) |
| | **Meets August 26, 2024 - October 14, 2024** | |
| | TuTh 12:00pm - 1:50pm | VMH 1520 |

**BULM701** **Business Fundamentals for Supply Chain Managers II**

(Perm req)

*Prerequisite: BULM700; or permission of BMGT-Robert H. Smith School of Business. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BULM758Q or BULM701. Formerly: BULM758Q.*

*This is the second course of the series Business fundamentals for Supply Chain Managers. This course is intended to provide you with the knowledge and skills necessary to quantify the impact of supply chain management decisions on the bottom line. Students will gain a solid understanding of accounting, finance and the link between supply chain and overall financial performance. Students will analyze financial statements and explain the implications of supply chain management decisions on standard financial ratios and all components of the balance sheet and income statement. Through interactive supply chain finance models, students will demonstrate the sensitivity of outcome to multiple independent variables. Last but not least, students will also learn how to apply the net present value technique to evaluate the feasibility of investment projects in supply chain.*

| | | |
|---|---|---|
| 0501 | Humberto Coronado | Seats (Total: 0) |
| | **Meets October 21, 2024 - December 10, 2024** | |
| | TuTh 12:00pm - 1:50pm | VMH 1202 |

**BULM710** **Data Driven Decision Making I**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI630, BULM758X or BULM710. Formerly: BULM758X.*

*Analytical modeling of business decisions; uncertainty, risk and expected utility; regression modeling to infer relationships among variables.*

| | | |
|---|---|---|
| 0501 | Ashish Kabra | Seats (Total: 0) |
| | **Meets August 26, 2024 - October 14, 2024** | |
| | MW 2:00pm - 3:50pm | VMH 1528 |
| | Contact instructor or department for details. | |

**BULM711** **Data Driven Decision Making II**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI630, BULM758Y or BULM711. Formerly: BULM758Y.*

*Analytical modeling of business decisions; uncertainty, risk and expected utility; regression modeling to infer relationships among variables.*

| | | |
|---|---|---|
| 0501 | Maria Bardossy<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 2:00pm - 3:50pm | Seats (Total: 0)<br><br>VMH 1202 |

**BULM721** **Global Supply Chain Management**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI672 or BULM721.*

*Offers a practical blueprint for understanding, building, implementing, and sustaining supply chains in today's rapidly changing global supply chain environment. It will provide the student with a survey of the fast-moving Supply Chain Management discipline and practice, including the evolution of supply chain strategies, business models and technologies; current best practices in demand and supply management; and methodologies for conducting supply chain-wide diagnostic assessments and formulating process improvement plans.*

| | | |
|---|---|---|
| 0501 | Humberto Coronado<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 4:00pm - 5:50pm | Seats (Total: 0)<br><br>VMH 1511 |

**BULM742** **Global Supply Chain Resources Planning**

(Perm req)

*Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business.*

*Provides students with an overall understanding of how firms use an advanced supply chain planning (ASCP) application as an integral part of their materials management process which includes such activities as production planning, materials requirements planning, and distribution requirements planning.*

| | | |
|---|---|---|
| 0501 | Philip Evers<br>**Meets October 21, 2024 - December 10, 2024**<br>MW 2:00pm - 3:50pm | Seats (Total: 0)<br><br>VMH 1520 |

**BULM750** **Lean Sigma for Supply Chain I**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BULM758L or BULM750. Formerly: BULM758L.*

*This course is part of a series of courses. This the second part of the Lean Six Sigma for SC Managers course series. We will be focusing on the Analyze, Improve and Control phases of the Lean Six Sigma methodology. Lean Six Sigma is a robust methodology for problem solving aiming to improve quality and reduce speed within a process. This course covers up to the Lean and Six Sigma Green Belt level body of knowledge. You will be expected to conduct a project on a case study of a business looking to improve their processes to meet customer requirements.*

| | | |
|---|---|---|
| 0501 | Jewelyn Harrington<br>**Meets August 26, 2024 - October 14, 2024**<br>M 6:25pm - 10:00pm<br>Contact instructor or department for details. | Seats (Total: 0)<br><br><br>VMH 1520 |

**BULM751** **Lean Sigma for the Supply Chain II**

(Perm req)

*Prerequisite: BULM750. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BULM758V or BULM751. Formerly: BULM758V.*

*This course is part of a series of courses. The first part will cover the Introduction, Define and Measure Phases of the Lean Six Sigma Methodology. Lean Six Sigma is a robust methodology for problem solving aiming to improve quality and reduce speed within a process. This course covers up to the Lean and Six Sigma Green Belt level body of knowledge. You will be expected to conduct a project on a case study of a business looking to improve their processes to meet customer requirements.*

| | | |
|---|---|---|
| 0501 | Jewelyn Harrington<br>**Meets October 21, 2024 - December 10, 2024**<br>M 6:25pm - 10:00pm | Seats (Total: 0)<br><br><br>VMH 1520 |

**BULM756** **Supply Chain Strategy**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BULM758B or BULM756. Formerly: BULM758B.*

*Examines supply chain management at the strategic level. Through class lectures, case discussions, and assignments, students first learn about the determinants of corporate strategy. Supply chain strategies are then discussed, along with the need to properly align supply chain strategy with corporate strategy. Finally, there is a discussion of how to implement supply chain strategy, given various environmental and market considerations.*

| | | |
|---|---|---|
| 0501 | Geoffrey Milsom<br>**Meets October 21, 2024 - December 10, 2024**<br>MW 4:00pm - 5:50pm | Seats (Total: 0)<br><br>VMH 1511 |

**BULM758C** **Special Topics in Logistics, Business and Public Policy; Assessing & Managing Supply Chain Risks**

*Selected advanced topics in the various fields of graduate study in logistics, business and public policy.*

| | | |
|---|---|---|
| 0501 | Hongyi Zhang<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 2:00pm - 3:50pm | Seats (Total: 0)<br><br>VMH 3522 |

**BULM758F** **Special Topics in Logistics, Business and Public Policy; Sustainable Supply Chain Management**

*Selected advanced topics in the various fields of graduate study in logistics, business and public policy.*

| | | |
|---|---|---|
| 0501 | Niratcha Tungtisanont<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 4:00pm - 5:50pm | Seats (Total: 0)<br><br>Location: TBA |

**BULM758P** **Special Topics in Logistics, Business and Public Policy; Policy and Legal Context for Sustainability Management**

*Selected advanced topics in the various fields of graduate study in logistics, business and public policy.*

| | | |
|---|---|---|
| 0501 | Jon Crocker<br>**Meets October 21, 2024 - December 10, 2024**<br>MW 10:00am - 11:50am | Seats (Total: 0)<br><br>VMH 1202 |

**BULM758Z** **Special Topics in Logistics, Business and Public Policy; Strategic Management with a Sustainable Mindset**

(Perm req)

*Selected advanced topics in the various fields of graduate study in logistics, business and public policy.*

| | | |
|---|---|---|
| 0501 | Nima Farshchi<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 12:00pm - 1:50pm | Seats (Total: 0)<br><br>VMH 1202 |

**BULM759** **Independent Study in Logistics Management**

(Perm req)

*Independent study for Masters students in Logistics Management.*

**Contact department for information to register for this course.**

# BUMK Marketing Fall 2024

**BUMK720** **Marketing Strategy**

(Perm req)

*Restriction: Permission of BMGT-Robert H. Smith School of Business; or must be in Business and Management (Master's) program. Credit only granted for: BUMK758B or BUMK720. Formerly: BUMK758B.*

*Introduces students to the fundamentals of marketing. This course combines lectures, readings, case analyses and a competitive simulation. A significant part of the course involves a competitive computer-based simulation in which student teams leverage marketing data and metrics to make marketing decisions for an organization that is competing in a market against other student teams in the class.*

Courses with the BUMK prefix are offered only for students in the MS in Marketing Analytics program. Cross-listed with BDBA858M. Credit only granted for BUMK720 or BDBA858M.

| | | |
|---|---|---|
| 0501 | Judy Frels | Seats (Total: 0) |
| | **Meets August 26, 2024 - December 9, 2024** | |
| | TuTh 5:00pm - 6:15pm | VMH 1520 |

**BUMK724** **Customer Analysis**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMK758D or BUMK724. Formerly: BUMK758D.*

*Focuses on the analysis of customer decision-making and how marketing strategy can be used to influence those decisions. The framework used is the buyer behavior model, in which concepts from psychology, sociology, and economics are applied to individual and organizational purchase decisions. Marketing strategies of leading firms in consumer products, technology, and services (including internet services) are analyzed using a variety of case study formats.*

Cross-listed with BDBA858A. Credit only granted for BUMK724 or BDBA858A.

| | | |
|---|---|---|
| 0501 | Ali Faraji-Rad | Seats (Total: 0) |
| | **Meets August 26, 2024 - December 9, 2024** | |
| | MW 12:30pm - 1:45pm | VMH 1511 |

**BUMK726** **Statistical Programming for Customer Analytics**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMK758E or BUMK726. Formerly: BUMK758E.*

*Provides students with a foundation in probability and statistics with a focus on business applications. It also gives students a foundation for thinking in both likelihood and Bayesian frameworks. The course teaches students the basics of SAS, as well as its use in statistical analysis and statistical programming. Also addressed are basic SAS language structure, data management, OLAP, enterprise miner, statistical analysis, writing procedures.*

| | | |
|---|---|---|
| 0501 | Jason Choi<br>**Meets August 26, 2024 - December 9, 2024**<br>TuTh 2:00pm - 3:15pm | Seats (Total: 0)<br><br><br>VMH 1520 |
| 0502 | Jason Choi<br>**Meets August 26, 2024 - December 9, 2024**<br>TuTh 3:30pm - 4:45pm | Seats (Total: 0)<br><br><br>VMH 1520 |

**BUMK742** **Marketing Analytics for Consulting**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMK758K or BUMK742. Formerly: BUMK758K.*

*The analysis of marketing data needed for profitable marketing decisions. Advanced methods of marketing analysis for marketing decisions, including choice and count data models, joint analysis of consumers choice, quantity and timing decisions, mixture and mixture regression models, and conjoint analysis, all using data-based cases and SAS software. Applications are in the areas of strategic marketing, marketing segmentation, eye tracking for advertising effectiveness, new product development, sales promotion analysis, pricing, design of marketing mix, and direct marketing.*

| | | |
|---|---|---|
| 0501 | Michel Wedel<br>**Meets August 26, 2024 - December 9, 2024**<br>W 7:00pm - 9:40pm | Seats (Total: 0)<br><br><br>VMH 1412 |

**BUMK758G** **Special Topics in Marketing**

(Perm req)

*Selected advanced topics in the various fields of graduate study in marketing.*

Cross-listed with BDBA858K. Credit only granted for BDBA858K or BUMK758G.

| | | |
|---|---|---|
| 0501 | Christine Schaaf<br>**Meets October 21, 2024 - December 10, 2024**<br>MW 4:00pm - 5:50pm | Seats (Total: 0)<br><br>VMH 1520 |
| 0502 | Melissa Lucas<br>**Meets October 21, 2024 - December 10, 2024**<br>MW 4:00pm - 5:50pm | Seats (Total: 0)<br><br>VMH 1518 |

**BUMK759** **Independent Study in Marketing**

(Perm req)

*Independent study for Masters students in Marketing.*

**Contact department for information to register for this course.**

**BUMK760** **Business Policies and Ethics**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMK758F or BUMK760. Formerly: BUMK758F.*

*The standards of business conduct, morals and values as well as the role of business in society. Students will consider the sometimes conflicting interests of and claims on the firm and its objectives.*

Cross-listed with BDBA858B. Credit only granted for BUMK760 or BDBA858B.

| | | |
|---|---|---|
| 0501 | Mary Beth Furst<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 4:00pm - 5:50pm | Seats (Total: 0)<br><br>VMH 1520 |

**BUMK766** **Digital Analytics**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMK758N or BUMK766. Formerly: BUMK758N.*

*Examines the process of developing, implementing and analyzing strategies for successfully marketing a variety of existing and potential products and services on the Internet. Special attention is devoted to the tools and techniques unique to the electronic media.*

| | | |
|---|---|---|
| 0501 | Michael Trusov | Seats (Total: 0) |
| | **Meets October 21, 2024 - December 10, 2024** | |
| | TuTh 10:00am - 11:50am | VMH 1202 |

**BUMK773** **Pricing Analytics and Strategies**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMK758J or BUMK773. Formerly: BUMK758J.*

*The economic and behavioral aspects of pricing and the evaluation of innovative pricing practices such as price matching, customized pricing, bundle pricing and product line pricing. The course will cover both B2B, B2C, online and offline markets. Instruction will be through a mix of case studies, pricing simulation games, hands-on exercises, practitioner guest lectures and discussions.*

| | | |
|---|---|---|
| 0501 | Bo Zhou | Seats (Total: 0) |
| | **Meets August 26, 2024 - October 14, 2024** | |
| | TuTh 10:00am - 11:50am | VMH 1520 |

# BUSI Part-Time MBA Program Fall 2024

**BUSI600** **Fundamentals of Business Decision Making**

*Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business. Additional information: Pre-work includes the DISC assessment, and a requires a passing grade on a spreadsheet pre-work course.*

*Introduces students to the language of business. Topics covered include financial accounting, financial management, data models, strategy, leadership and teamwork, and a brief action learning project on innovation.*

| | | |
|---|---|---|
| BA01 | Mary Beth Furst | Seats (Total: 84) |
| | **Meets August 10, 2024 - September 10, 2024** | |
| | SaSu 8:00am - 6:00pm | Location: TBA |
| | Contact instructor or department for details. | |
| | *Meets in person 8/17 and 8/18 in College Park* | |

**BUSI602** **Leading with a Strategic Mindset**

*Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.*

*This course sits at the intersection of leadership and strategy. Focuses on the aspects of the firm that facilitate reaching strategic objectives. In particular, organizational alignment facilitates the development of innovative ideas, achieving operational efficiency, sustaining organizational growth, adopting new business models, achieving strategic change, and building organizational competence. Use of several tools in analysis, such as congruence analysis, the 7S model, network analysis, and design thinking. Focus on thinking systematically and analytically about managing an organization and leading strategically.*

| | | |
|---|---|---|
| GS01 | Paulo Prochno<br>**Meets October 21, 2024 - December 10, 2024**<br>Tu 6:25pm - 10:00pm | Seats (Total: 50)<br><br>BLD4 5308 |
| WW01 | Paulo Prochno<br>**Meets October 21, 2024 - December 10, 2024**<br>Th 6:25pm - 10:00pm<br>Class time/details on ELMs | Seats (Total: 50)<br><br>ONLINE<br>ONLINE |

**BUSI611** **Managerial Accounting**

(Perm req)

*Prerequisite: BUSI610. Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUSI611, BUAC616, or BMGT616.*

*Use of accounting data in corporate planning and control. Cost-volume- profit analysis, budgeting, pricing decisions and cost data, transfer pricing, activity-based management, performance measures, and standard costing.*

| | | |
|---|---|---|
| BA01 | Naman Desai<br>**Meets August 26, 2024 - October 14, 2024**<br>M 6:25pm - 10:00pm | Seats (Total: 0)<br><br>BA 103 |
| DC01 | Naman Desai<br>**Meets August 26, 2024 - October 14, 2024**<br>W 6:25pm - 10:00pm<br>Contact instructor or department for details. | Seats (Total: 0)<br><br>DC C2 |

| | | |
|---|---|---|
| GS01 | Naman Desai<br>**Meets August 26, 2024 - October 14, 2024**<br>Th 6:25pm - 10:00pm | Seats (Total: 0)<br><br>BLD4 5308 |

**BUSI634** **Operations Management**

(Perm req)

*Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)) ; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI634 or BMGT624.*

*Operations management is concerned with efficient and effective design and operation of business processes for delivering products and/or services. Emphasis is given to process analysis and design, capacity management and bottlenecks, waiting lines and the impact of uncertainty in process performance, quality management, lean, six-sigma, and revenue management.*

| | | |
|---|---|---|
| BA01 | Kazim Ruhi<br>**Meets October 21, 2024 - December 10, 2024**<br>M 6:25pm - 10:00pm | Seats (Total: 0)<br><br>BA 104 |
| DC01 | Anand Anandalingam<br>**Meets October 21, 2024 - December 10, 2024**<br>W 6:25pm - 10:00pm<br>Contact instructor or department for details. | Seats (Total: 0)<br><br>DC C3 |
| GS01 | Kazim Ruhi<br>**Meets October 21, 2024 - December 10, 2024**<br>Th 6:25pm - 10:00pm | Seats (Total: 0)<br><br>BLD4 5308 |

**BUSI650** **Marketing Management**

(Perm req)

*Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUSI650 or BMGT612.*

*Analysis of marketing problems and evaluation of specific marketing efforts regarding the organization's products and services, pricing activities, channel selection, and promotion strategies in both domestic and international markets.*

| | | |
|---|---|---|
| BA01 | Dan Goldsmith<br>**Meets October 21, 2024 - December 10, 2024**<br>Th 6:25pm - 10:00pm | Seats (Total: 0)<br><br>BA 104 |
| DC01 | Cathy Yi Chen<br>**Meets October 21, 2024 - December 10, 2024**<br>M 6:25pm - 10:00pm | Seats (Total: 0)<br><br>DC C2 |
| GS01 | Rosellina Ferraro<br>**Meets October 21, 2024 - December 10, 2024**<br>W 6:25pm - 10:00pm | Seats (Total: 0)<br><br>BLD4 5308 |

**BUSI662** **Leadership and Teamwork**

(Perm req)

*Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BMGT600, BUSI662, or BUSM600.*

*Course examines concepts of team-building and leadership which are critical to managerial success. Topics include leadership, decision making, communication and conflict, work motivation, building effective teams, and organizational change and culture.*

| | | |
|---|---|---|
| BA01 | Roy Thomason<br>**Meets August 26, 2024 - October 14, 2024**<br>Th 6:25pm - 10:00pm | Seats (Total: 0)<br><br>BA 104 |
| DC01 | Subrahmaniam Tangirala<br>**Meets August 26, 2024 - October 14, 2024**<br>M 6:25pm - 10:00pm<br>Contact instructor or department for details. | Seats (Total: 0)<br><br>DC C2 |
| GS01 | Subrahmaniam Tangirala<br>**Meets August 26, 2024 - October 14, 2024**<br>W 6:25pm - 10:00pm | Seats (Total: 0)<br><br>BLD4 5308 |

**BUSI681** **Managerial Economics and Public Policy**

(Perm req)

*Restriction: Must be in one of the following programs (Business and Management (Master's); Business and Management (Master's)). Credit only granted for: BUSI681 or BMGT604.*

*Basic microeconomic principles used by firms, including supply and demand, elasticities, costs, productivity, pricing, market structure and competitive implications of alternative market structures. Market failures and government intervention. Public policy processes affecting business operations.*

| | | |
|---|---|---|
| BA01 | Bennet Zelner<br>**Meets August 26, 2024 - October 14, 2024**<br>Tu 6:25pm - 10:00pm | Seats (Total: 0)<br><br>BA 104 |
| DC01 | Bennet Zelner<br>**Meets August 26, 2024 - October 14, 2024**<br>W 6:25pm - 10:00pm | Seats (Total: 0)<br><br>DC C3 |
| GS01 | Bennet Zelner<br>**Meets August 26, 2024 - October 14, 2024**<br>M 6:25pm - 10:00pm<br>Contact instructor or department for details. | Seats (Total: 0)<br><br>BLD4 5308 |

**BUSI710** **Competitive and Collaborative Negotiation**

*Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.*

*Increase negotiating self-confidence and improve capacity to achieve win-win solutions to organizational problems. Improve effectiveness at finding creative solutions to conflict.*

| | | |
|---|---|---|
| BA01 | Vijaya Venkataramani<br>**Meets August 26, 2024 - October 14, 2024**<br>W 6:25pm - 10:00pm<br>Contact instructor or department for details. | Seats (Total: 50)<br><br>BA 103 |
| DC01 | Rellie Rozin<br>**Meets August 26, 2024 - October 14, 2024**<br>Th 6:25pm - 10:00pm | Seats (Total: 50)<br><br>DC C1 |

| | | |
|---|---|---|
| GS01 | Vijaya Venkataramani<br>**Meets August 26, 2024 - October 14, 2024**<br>Tu 6:25pm - 10:00pm | Seats (Total: 50)<br><br>BLD4 5308 |

**BUSI718D** **Special Topics in Business; Data Driven Analytics**

(Perm req)

*Selected advanced topics in the various fields of graduate study in business.*

| | | |
|---|---|---|
| BA01 | Ramakrishnan Balasubramanian<br>**Meets October 21, 2024 - December 10, 2024**<br>Tu 6:25pm - 10:00pm | Seats (Total: 0)<br><br>BA 104 |
| DC01 | Ashish Kabra<br>**Meets October 21, 2024 - December 10, 2024**<br>W 6:25pm - 10:00pm | Seats (Total: 0)<br><br>DC C2 |
| GS01 | Ashish Kabra<br>**Meets October 21, 2024 - December 10, 2024**<br>M 6:25pm - 10:00pm | Seats (Total: 0)<br><br>BLD4 5308 |

**BUSI737** **Innovation & Product Development**

*Prerequisite: BUSI650. Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.*

*Focuses on the development of innovations, new products or new services from the perspective of a marketer. For an innovation to be successful in the market, it has to be customer centric: hence, in this course, we study how to develop and bring to market elegant and efficient solutions to strong customer needs. This is a fundamental business challenge, faced while working in a startup or in an established company; when developing a new product or a new service; and when serving customers who are individuals or large corporations.*

Cross-listed with BDBA858Q. Credit only granted for BDBA858Q or BUSI737.

| | | |
|---|---|---|
| BA01 | Mary Beth Furst<br>**Meets October 21, 2024 - December 10, 2024**<br>Th 6:25pm - 10:00pm | Seats (Total: 50)<br><br>BA 102 |

**BUSI741** **Financial Strategy for Corporations**

*Prerequisite: BUSI640. Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert  H. Smith School of Business.*

*Advanced course in corporate finance, focusing on the issues that firms face when they plan to raise external capital from financial markets. The focus is on the financing problems faced by mid-market to large firms and on capital raised from public markets. The forms of external finance vary from simple debt or equity to more complex securities that bundle with an element of risk management.*

| | | |
|---|---|---|
| DC01 | Pablo Slutzky | Seats (Total: 50) |
| | **Meets August 26, 2024 - October 14, 2024** | |
| | Tu 6:25pm - 10:00pm | DC C3 |
| | *This course section meets in a synchronous hybrid format with some students attending exclusively in-person and others attending exclusively online.* | |

**BUSI758F** **Special Topics in Business; Investment Fund Management**

(Perm req)

*Selected advanced topics in the various fields of graduate study in business.*

| | | |
|---|---|---|
| DC01 | Kenneth Fuller | Seats (Total: 0) |
| | **Meets August 26, 2024 - December 9, 2024** | |
| | Th 6:25pm - 10:00pm | Location: TBA |

**BUSI758K** **Special Topics in Business; Portfolio Management**

*Selected advanced topics in the various fields of graduate study in business.*

| | | |
|---|---|---|
| WW01 | Mark Loewenstein | Seats (Total: 50) |
| | **Meets August 26, 2024 - October 14, 2024** | |
| | Th 6:25pm - 10:00pm | ONLINE |
| | Class time/details on ELMs | ONLINE |

**BUSI758V** **Special Topics in Business; Digital Promotion and Advertising**

*Selected advanced topics in the various fields of graduate study in business.*

This course section meets in a synchronous hybrid format with some students attending exclusively in-person and others attending exclusively online.

| | | |
|---|---|---|
| DC01 | Pallassana Kannan | Seats (Total: 50) |
| | **Meets October 21, 2024 - December 10, 2024** | |
| | Tu 6:25pm - 10:00pm | Location: TBA |

**BUSI759** **Independent Study in Business**

(Perm req)

*Independent study for Masters students in Business.*

**Contact department for information to register for this course.**

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**BUSI781** **Marketing Emergent Technology**

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith.*

*The many challenges and best practices of successfully marketing emergent technologies. The course will begin with a discussion of past successes and failures in marketing emergent technologies; followed by a study of the effective approaches and frameworks that help technology managers identify and understand customer needs. We will then focus on analyzing how the identified customer needs can guide design and development of emergent technologies. We will subsequently turn our attention to understanding how to translate customer needs and market conditions into effectively positioning our emergent technologies, with the intent of maximizing success when going to market.*

| | | |
|---|---|---|
| DC06 | Yogesh Joshi | Seats (Total: 50) |
| | **Meets November 17, 2024 - December 15, 2024** | |
| | Sa 9:00am - 5:00pm | DC C3 |
| | *Meets in-person on 11/23 and 12/7.* | |

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**BUSI787** **Integrative Capstone**

*Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.*

*Provide students with an integrative experience to utilize the functional tools amassed in the MBA program and acquire new knowledge in the areas of international business, business ethics and executive/leadership presence, provide students with the opportunity to work with multiple functional areas at a time to drive business growth and utilize cases to address domestic and international challenges, enabling you to sharpen your skills in utilizing several methods for adding economic value when expanding globally. Additionally, students will raise awareness of best practices in building executive/leadership presence, as functional knowledge and business expertise is not enough to ensure successful career progression.*

| | | |
|---|---|---|
| WW01 | Judy Frels | Seats (Total: 25) |
| | **Meets November 2, 2024 - November 3, 2024** | |
| | SaSu 8:30am - 5:30pm | ONLINE |
| | Class time/details on ELMs | ONLINE |
| | *Online synchronous meetings on 11/2 and 11/3* | |

**BUSI788W** **Introduction to Global Business Experience; Doing Business in Asia: Supply Chain Challenges and Opportunities in Asia**

*Introduction to the economic climate of the country and region, history, political influences on business landscape, and specific opportunities and threats of doing business in the destination country. Course is a prerequisite to short-term study abroad classes.*

| | | |
|---|---|---|
| GX01 | Zhi-Long Chen<br>**Meets October 21, 2024 - December 10, 2024**<br>Su 12:00pm - 1:00pm<br>Contact instructor or department for details. | Seats (Total: 17)<br><br>VMH 1333 |

**BUSI791** **Research and Development Strategy and Process**

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business.*

*This course will educate technology management professionals on contemporary strategy, management approaches, and best-practices for research and development. The course will focus on private sector methods to manage technology programs, identify and specify technical requirements, communicate technology use and value, and assess new technologies and architectures. It will include instruction on technology scouting and assessing Technology Readiness Levels (TRLs). Through engagement with experts in creating and managing technology, students will also be exposed to human and behavioral factors that can influence technology adoption in the commercial and public sector.*

| | | |
|---|---|---|
| DC06 | Joseph Bailey<br>**Meets August 26, 2024 - September 28, 2024**<br>Sa 9:00am - 5:00pm<br><br>*Meets in-person on 8/31, 9/7, and 9/21.* | Seats (Total: 50)<br><br>DC C3 |

**BUSI793** **Technology Entrepreneurship, Innovation and Commercialization**

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business.*

*Best practices and challenges in organizing and cultivating new ideas into successful public and private sector technology ventures. The course provides an integrated strategic framework for innovation-based entrepreneurs and technology professionals. It will be structured to provide a deep understanding of the core strategic choices facing startup innovators, a synthetic framework for the development and implementation of entrepreneurial strategy in dynamic environments, and the ability to scale those ventures over time. A central theme of the course is that, to achieve competitive advantage, technology entrepreneurs must balance the process of experimentation and learning inherent to both technological advance and entrepreneurship, with the selection and implementation of a strategy that establishes a competitive advantage. The course identifies the key choices entrepreneurs make to take advantage of a novel opportunity and the logic of particular strategic commitments and positions that allow entrepreneurs to establish a competitive advantage.*

| | | |
|---|---|---|
| DC06 | Brent Goldfarb<br>**Meets September 29, 2024 - November 16, 2024**<br>Sa 9:00am - 5:00pm<br>*Meets in-person on 10/5, 10/26, and 11/9.* | Seats (Total: 50)<br><br>DC C3 |

**BUSI799** **Masters Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

# BUSM Full-Time MBA Program Fall 2024

*Courses with the BUSM prefix are offered only for students in the full- time MBA program.*

**BUSM600** **Leadership and Teamwork**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BMGT600, BUSI662 or BUSM600.*

*Course examines concepts of team-building and leadership which are critical to managerial success. Topics include leadership, decision making, communication and conflict, work motivation, building effective teams, and organizational change and culture.*

| | | |
|---|---|---|
| 0101 | Nicole Coomber<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 10:00am - 11:50am | Seats (Total: 0)<br><br>VMH 2202 |

**BUSM602** **Introduction to Financial Accounting**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI610 or BUSM602.*

*Overview of financial accounting, periodic financial statements and the financial reporting process. Importance of financial statements as information source for creditors and investors and as a means by which managers can communicate information about their firms.*

| | | |
|---|---|---|
| 0101 | Nick Seybert<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 12:00pm - 1:50pm<br>Contact instructor or department for details. | Seats (Total: 0)<br><br>VMH 1333 |

**BUSM604** **Managerial Economics and Public Policy**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI681 or BUSM604.*

*Basic microeconomic principles used by firms, including supply and demand, elasticities, costs, productivity, pricing, market structure and competitive implications of alternative market structures. Market failures and government intervention. Public policy processes affecting business operations.*

| | | |
|---|---|---|
| 0101 | Rachelle Sampson | Seats (Total: 0) |
| | **Meets August 26, 2024 - October 14, 2024** | |
| | MW 10:00am - 11:50am | VMH 1333 |
| | Contact instructor or department for details. | |

**BUSM606** **Data Driven Decision Making**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI630 or BUSM606.*

*Analytical modeling of business decisions; uncertainty, risk and expected utility; regression modeling to infer relationships among variables.*

| | | |
|---|---|---|
| 0101 | Tunay Tunca | Seats (Total: 0) |
| | **Meets August 26, 2024 - October 14, 2024** | |
| | TuTh 2:00pm - 3:50pm | VMH 1333 |

**BUSM612** **Marketing Management**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI650 or BUSM612.*

*Analysis of marketing problems and evaluation of specific marketing efforts regarding the organization's products and services, pricing activities, channel selection, and promotion strategies in both domestic and international markets.*

| | | |
|---|---|---|
| 0101 | Judy Frels | Seats (Total: 0) |
| | **Meets October 21, 2024 - December 10, 2024** | |
| | MW 12:00pm - 1:50pm | VMH 1333 |

**BUSM616** **Managerial Accounting**

(Perm req)

*Prerequisite: BUSI610. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI611 or BUSM616.*

*Use of accounting data in corporate planning and control. Cost-volume- profit analysis, budgeting, pricing decisions and cost data, transfer pricing, activity-based management, performance measures, and standard costing.*

| | | |
|---|---|---|
| 0101 | Naman Desai | Seats (Total: 0) |
| | **Meets October 21, 2024 - December 10, 2024** | |
| | TuTh 4:00pm - 5:50pm | VMH 1333 |

**BUSM621** **Digital Transformation in Business**

(Perm req)

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business.*

*Introduces students to the strategic role of digital transformation within businesses, and provides an overview for how major information technologies may be used to inform and transform the firm's strategic, operational, and tactical decisions. Topics discussed in the course include the strategic use of digital technologies to generate sustainable competitive value; the contributions of new forms of technology infrastructure; the evaluation of new technology investments and the resulting ROI; acquiring, managing and governing technological capabilities within the firm; understanding the role of enterprise systems and social technologies within the firm; and the management of disruptive technologies within and outside the firm.*

| | | |
|---|---|---|
| 0101 | Il-Horn Hann | Seats (Total: 0) |
| | **Meets August 26, 2024 - October 14, 2024** | |
| | TuTh 2:00pm - 3:50pm | VMH 2202 |

**BUSM706** **Innovation & Product Development**

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMO758P or BUSM706.*

*Focuses on the development of innovations - new products or new services - from the perspective of a marketer. For an innovation to be successful in the market, it has to be customer-centric: hence, in this course, we study how to develop and bring to market elegant and efficient solutions to strong customer needs. This is a fundamental business challenge, faced while working in a startup or in an established company; when developing a new product or a new service; and when serving customers who are individuals or large corporations.*

Cross-listed with BDBA858P. Credit only granted for BUSM706 or BDBA858P.

| | | |
|---|---|---|
| 0101 | Yogesh Joshi<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 10:00am - 11:50am | Seats (Total: 42)<br><br>VMH 2505 |

**BUSM708** **Independent Study in Business**

(Perm req)

*Independent study for Masters students in Business.*

**Contact department for information to register for this course.**

**BUSM715** **Digital Marketing**

*Restriction: Must be in Business and Management (Master's) program OR Permission of BMGT-Robert H. Smith School of Business.*

*It has been a quarter century since the commercial use of the Internet and the World Wide Web began and during that time the business landscape has changed at a frenetic pace. Large multinational corporations such as Alphabet/Google, Facebook, Amazon, Alibaba and eBay, unheard of twenty years ago, have emerged as key players in our modern economy. In 2017 holiday season, online sales increased over 16 percent of overall spending online in 2016 with online retail spending in the U.S., the highest percentage since tracking began in 1999. Sales made through mobile devices have increased at a rapid rate to around 22 to 40 percent of all online sales. Corporations now highlight the importance of creating a digital relationship with customers. Moreover, digital technologies and devices such as smartphones, smart products, the Internet of Things, Artificial Intelligence, and deep learning all promise significant transformations of consumers lives in the near future. It is against this backdrop this course seeks to understand how the developments in digital technology are re-shaping the process and the strategy of marketing in the broad space we call digital marketing.*

| | | |
|---|---|---|
| 0101 | Pallassana Kannan<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 2:00pm - 3:50pm<br>Contact instructor or department for details. | Seats (Total: 42)<br><br>VMH 2505 |

**BUSM738A** **Investment Fund Management; Mayer Fund**

(Perm req)

*Provides second-year Master in Business Administration students with the opportunity to apply the skills learned in finance classes to actual investment decisions through management of an investment fund.*

**Contact department for information to register for this course.**

**BUSM754** **Competitive and Collaborative Negotiation**

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMO714 or BUSM754.*

*Increase negotiating self-confidence and improve capacity to achieve win-win solutions to organizational problems. Improve effectiveness at finding creative solutions to conflict.*

| | | |
|---|---|---|
| 0101 | Vijaya Venkataramani<br>**Meets August 26, 2024 - October 14, 2024**<br>MW 10:00am - 11:50am<br>Contact instructor or department for details. | Seats (Total: 42)<br><br><br>VMH 2202 |

**BUSM758J** **Special Topics in Business; Financial Management I**

(Perm req)

*Selected advanced topics in the various fields of graduate study in business.*

| | | |
|---|---|---|
| 0101 | Richmond Mathews<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 4:00pm - 5:50pm | Seats (Total: 0)<br><br><br>VMH 1333 |

**BUSM758N** **Special Topics in Business; Managing Change**

*Selected advanced topics in the various fields of graduate study in business.*

| | | |
|---|---|---|
| 0101 | Myeong-Gu Seo<br>**Meets October 21, 2024 - December 10, 2024**<br>MW 12:00pm - 1:50pm | Seats (Total: 42)<br><br><br>VMH 2505 |

**BUSM758P** **Special Topics in Business; Financial Management II**

(Perm req)

*Selected advanced topics in the various fields of graduate study in business.*

| | | |
|---|---|---|
| 0101 | Richmond Mathews<br>**Meets October 21, 2024 - December 10, 2024**<br>TuTh 2:00pm - 3:50pm | Seats (Total: 0)<br><br><br>VMH 1333 |

**BUSM758T** **Special Topics in Business; Financial Institutions in the Era of FinTech and AI**

*Selected advanced topics in the various fields of graduate study in business.*

| | | |
|---|---|---|
| 0101 | Haluk Unal<br>**Meets October 21, 2024 - December 10, 2024**<br>MW 10:00am - 11:50am | Seats (Total: 42)<br><br>VMH 1520 |

**BUSM758V** **Special Topics in Business; Designing AI Systems**

*Selected advanced topics in the various fields of graduate study in business.*

Cross-listed with BDBA808C. Credit only granted for BDBA808C or BUSM758V.

| | | |
|---|---|---|
| 0101 | Kunpeng Zhang<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 10:00am - 11:50am | Seats (Total: 42)<br><br>VMH 1202 |

**BUSM758W** **Special Topics in Business; Marketing in the Age of AI**

*Selected advanced topics in the various fields of graduate study in business.*

Cross-listed with BDBA858N. Credit only granted for BDBA858N or BUSM758W.

| | | |
|---|---|---|
| 0101 | Wendy Moe<br>**Meets October 21, 2024 - December 10, 2024**<br>MW 2:00pm - 3:50pm | Seats (Total: 42)<br><br>VMH 1202 |

**BUSM788W** **Global Business Experience; Doing Business in Asia: Supply Chain Challenges and Opportunities in Asia**

*Provides MBA students the opportunity to combine classroom learning and project research with seminars in a host country. The focus and locations visited will vary.*

| | | |
|---|---|---|
| GX01 | Zhi-Long Chen<br>**Meets October 21, 2024 - December 10, 2024**<br>Su 12:00pm - 1:00pm<br>Contact instructor or department for details. | Seats (Total: 3)<br><br>VMH 1333 |

**BUSM798C** **Business Consulting; Technology and Entrepreneurship**

*Selected advanced topics in the various fields of graduate study in business.*

| | | |
|---|---|---|
| 0101 | Brent Goldfarb<br>**Meets August 26, 2024 - October 14, 2024**<br>TuTh 10:00am - 11:50am | Seats (Total: 42)<br><br>VMH 2202 |

# BUSO Online MBA Program Fall 2024

**BUSO600** **Leadership and Teamwork**

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI662, BUSO600 or EMBA656.*

*Course examines concepts of team-building and leadership which are critical to managerial success. Topics include leadership, decision making, communication and conflict, work motivation, building effective teams, and organizational change and culture.*

| | | |
|---|---|---|
| SO11 | Neta Moye<br>**Meets August 26, 2024 - October 14, 2024**<br>M 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br><br>ONLINE<br>ONLINE |
| SO12 | Neta Moye<br>**Meets August 26, 2024 - October 14, 2024**<br>M 8:45pm - 10:15pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br><br>ONLINE<br>ONLINE |
| SO13 | Neta Moye<br>**Meets August 26, 2024 - October 14, 2024**<br>Tu 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br><br>ONLINE<br>ONLINE |

**BUSO603** **Data Analysis**

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business.*

*Many different skills are required in arriving at informed managerial decisions. Among these are analytical and quantitative skills. Data Analysis is one in a sequence of two courses that seeks to develop these two important skills. More formally, the goals of this course are: to introduce basic statistical techniques: summarizing and presenting data; confidence intervals and hypothesis tests; regression analysis.; to implement these techniques using spreadsheets; and to become active users of data analysis in making managerial decisions.*

| | | |
|---|---|---|
| SO11 | Sujin Kim<br>**Meets October 21, 2024 - December 10, 2024**<br>M 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br><br>ONLINE<br>ONLINE |

| | | |
|---|---|---|
| SO12 | Sujin Kim<br>**Meets October 21, 2024 - December 10, 2024**<br>M 8:45pm - 10:15pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br><br>ONLINE<br>ONLINE |
| SO13 | Sujin Kim<br>**Meets October 21, 2024 - December 10, 2024**<br>Tu 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br><br>ONLINE<br>ONLINE |

**BUSO604** **Managerial Economics and Public Policy**

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: EMBA681 or BUSO604.*

*Basic microeconomic principles used by firms, including supply and demand, elasticities, costs, productivity, pricing, market structure and competitive implications of alternative market structures. Market failures and government intervention. Public policy processes affecting business operations.*

| | | |
|---|---|---|
| SO11 | Rachelle Sampson<br>**Meets August 26, 2024 - October 14, 2024**<br>Tu 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br><br>ONLINE<br>ONLINE |
| SO12 | Rachelle Sampson<br>**Meets August 26, 2024 - October 14, 2024**<br>Tu 8:45pm - 10:15pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br><br>ONLINE<br>ONLINE |
| SO13 | Michael Lipsitz<br>**Meets August 26, 2024 - October 14, 2024**<br>W 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br><br>ONLINE<br>ONLINE |

**BUSO612** **Marketing Management**

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: EMBA757 or BUSO612.*

*Analysis of marketing problems and evaluation of specific marketing efforts regarding the organization's products and services, pricing activities, channel selection, and promotion strategies in both domestic and international markets.*

| | | |
|---|---|---|
| SO11 | Henry Boyd<br>**Meets October 21, 2024 - December 10, 2024**<br>Tu 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br>ONLINE<br>ONLINE |
| SO12 | Henry Boyd<br>**Meets October 21, 2024 - December 10, 2024**<br>Tu 8:45pm - 10:15pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br>ONLINE<br>ONLINE |
| SO13 | Henry Boyd<br>**Meets October 21, 2024 - December 10, 2024**<br>W 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br>ONLINE<br>ONLINE |

**BUSO616** **Managerial Accounting**

*Prerequisite: BUSI610; or BUSO602; or BUSM602. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI611, BUSM616 or BUSO616.*

*Use of accounting data in corporate planning and control. Cost-volume- profit analysis, budgeting, pricing decisions and cost data, transfer pricing, activity-based management, performance measures, and standard costing.*

| | | |
|---|---|---|
| SO31 | Lu Zhang<br>**Meets October 21, 2024 - December 10, 2024**<br>M 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br>ONLINE<br>ONLINE |
| SO32 | Lu Zhang<br>**Meets October 21, 2024 - December 10, 2024**<br>M 8:45pm - 10:15pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br>ONLINE<br>ONLINE |

| | | |
|---|---|---|
| SO33 | Lu Zhang<br>**Meets October 21, 2024 - December 10, 2024**<br>Tu 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 32)<br><br><br>ONLINE<br>ONLINE |

**BUSO624** **Operations Management**

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUSI634, BUSM624 or BUSO624.*

*Operations management is concerned with efficient and effective design and operation of business processes for delivering products and/or services. Emphasis is given to process analysis and design, capacity management and bottlenecks, waiting lines and the impact of uncertainty in process performance, quality management, lean, six-sigma, and revenue management.*

| | | |
|---|---|---|
| SO31 | Suresh Acharya<br>**Meets August 26, 2024 - October 14, 2024**<br>Tu 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br><br>ONLINE<br>ONLINE |
| SO32 | Suresh Acharya<br>**Meets August 26, 2024 - October 14, 2024**<br>Tu 8:45pm - 10:15pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br><br>ONLINE<br>ONLINE |
| SO33 | Suresh Acharya<br>**Meets August 26, 2024 - October 14, 2024**<br>W 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br><br>ONLINE<br>ONLINE |
| SO34 | Suresh Acharya<br>**Meets August 26, 2024 - October 14, 2024**<br>W 8:45pm - 10:15pm<br>Class time/details on ELMs | Seats (Total: 25)<br><br><br>ONLINE<br>ONLINE |

**BUSO700** **Fundamentals of Business**

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H Smith School of Business.*

*This course introduces students to the language of business. Topics covered include financial accounting, financial management, data models, strategy, leadership and teamwork, and a brief action learning project on innovation. Pre-work includes the DISC assessment, and a requires a passing grade on a spreadsheet pre-work course.*

| | | |
|---|---|---|
| SO91 | Mary Beth Furst | Seats (Total: 50) |
| | **Meets August 10, 2024 - September 10, 2024** | |
| | SaSu 8:00am - 8:00pm<br>Contact instructor or department for details. | Location: TBA |
| | *Meets in person 8/17 and 8/18 in College Park.* | |

**BUSO701 Integrative Business Capstone**

*Prerequisite: Students must have completed a minimum of 48 credit hours. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business.*

*This is an experiential course that involves an integrative business experience. This experience may be simulated through a software package or through content, speakers and events that are based in a realistic business setting. Students compete in teams. Each team makes decisions in areas such as human resources, compensation packages, geographic expansion through sales offices, debt versus equity financing, manufacturing and inventory management, marketing, including pricing, advertising and product design. The impact of each of these decisions flows through the three financial statements and results in financial outcomes and ratios that measure the success of each team. Additional metrics include stakeholders beyond investors such as employee morale, community engagement, and environmental impact. Students compete for financing and for customers. Multiple presentations are made by students during the simulation to explain their strategy, their tactics, and their planned investments.*

| | | |
|---|---|---|
| SO92 | Judy Frels | Seats (Total: 34) |
| | **Meets November 2, 2024 - November 3, 2024** | |
| | SaSu 8:00am - 8:00pm<br>Class time/details on ELMs | ONLINE<br>ONLINE |
| | *Online synchronous meetings on 11/2 and 11/3* | |

**BUSO711 Executive Powers and Negotiation**

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMO714, BUSM754 or BUSO711.*

*Increase negotiating self-confidence and improve capacity to achieve win-win solutions to organizational problems. Improve effectiveness at finding creative solutions to conflict.*

| | | |
|---|---|---|
| SO31 | Vijaya Venkataramani<br>**Meets August 26, 2024 - October 14, 2024**<br>M 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 32)<br><br><br>ONLINE<br>ONLINE |
| SO32 | Vijaya Venkataramani<br>**Meets August 26, 2024 - October 14, 2024**<br>M 8:45pm - 10:15pm<br>Class time/details on ELMs | Seats (Total: 32)<br><br><br>ONLINE<br>ONLINE |
| SO33 | Gosia Langa Basit<br>**Meets August 26, 2024 - October 14, 2024**<br>Tu 8:45pm - 10:15pm<br>Class time/details on ELMs | Seats (Total: 31)<br><br><br>ONLINE<br>ONLINE |

**BUSO731** **Social Media and Web Analytics**

*Prerequisite: BUSM612; or BUSO612; or BUSI650. Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BUMK758O, BUSO731 or BUSM716.*

*Examines the process of developing, implementing, and analyzing strategies for successfully marketing a variety of existing and potential products and services using electronic media. Besides well-established Internet marketing tools such as e-mail, search engines and display advertising, a substantial part of the course is dedicated to understanding social media, analyzing successful social media strategies, and tracking their effectiveness. The course offers hands-on experience with many popular as well as emerging techniques unique to electronic media. Special attention is given to metrics appropriate for the new media.*

Cross-listed with BDBA858J. Credit only granted for BDBA858J or BUSO731.

| | | |
|---|---|---|
| SO51 | Siva Viswanathan<br>**Meets October 21, 2024 - December 10, 2024**<br>W 8:45pm - 10:15pm<br>Class time/details on ELMs | Seats (Total: 28)<br><br><br>ONLINE<br>ONLINE |

| | | | |
|---|---|---|---|
| SO52 | Siva Viswanathan<br>**Meets October 21, 2024 - December 10, 2024**<br>Tu 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 28)<br><br><br>ONLINE<br>ONLINE |

**BUSO751** **Supply Chain Risk Management**

*Restriction: Must be in Business and Management (Master's) program; or permission of BMGT-Robert H. Smith School of Business. Credit only granted for: BULM734, BUSM784 or BUSO751.*

*Supply chain managers are facing an increasingly volatile operating environment, with constant danger of trading community disruption from business, social and environmental risks. Students are provided with a working knowledge of both the core techniques of supply chain risk assessment and mitigation; as well as best practices in establishing formal corporate supply chain risk management programs. A semester-long X-Treme Supply Chain Simulation will enable students to gain hands-on experience in navigating a computer company through a complex and risky four quarters of global business operations.*

| | | | |
|---|---|---|---|
| SO51 | Hongyi Zhang<br>**Meets October 21, 2024 - December 10, 2024**<br>W 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br><br>ONLINE<br>ONLINE |

**BUSO758A** **Special Topics in Business; Marketing Analytics**

*Selected advanced topics in the various fields of graduate study in business.*

Cross-listed with BDBA858G. Credit only granted for BDBA858G or BUSO758A.

| | | | |
|---|---|---|---|
| SO51 | Pallassana Kannan<br>**Meets October 21, 2024 - December 10, 2024**<br>M 7:00pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br><br>ONLINE<br>ONLINE |

**BUSO758G** **Special Topics in Business; Financial Restructuring**

*Selected advanced topics in the various fields of graduate study in business.*

| | | | |
|---|---|---|---|
| SO51 | James Seward<br>**Meets October 21, 2024 - December 10, 2024**<br>Tu 8:45pm - 10:15pm<br>Class time/details on ELMs | Seats (Total: 30)<br><br><br>ONLINE<br>ONLINE |

**BUSO788W** **Business Consulting; Doing Business in Asia: Supply Chain Challenges and Opportunities in Asia**

*Selected advanced topics in the various fields of graduate study in business.*

| | | |
|---|---|---|
| GX01 | Zhi-Long Chen<br>**Meets October 21, 2024 - December 10, 2024**<br>Su 12:00pm - 1:00pm<br>Contact instructor or department for details. | Seats (Total: 3)<br><br><br>VMH 1333 |

# CBMG Cell Biology & Molecular Genetics Fall 2024

**CBMG688C** **Special Topics in Cell Biology and Molecular Genetics**

*Presentation and discussion of fundamental problems and special subjects in the topics of Cell Biology and Molecular Genetics.*

Jointly offered with BSCI420. Credit only granted for BSCI420 or CBMG688 C.

| | | |
|---|---|---|
| 0101 | Norma Andrews<br>TuTh 12:30pm - 1:45pm | Seats (Total: 70)<br>TWS 0310 |

**CBMG688D** **Special Topics in Cell Biology and Molecular Genetics; Genetics: Cell Biology I - Structure and Function**

*Presentation and discussion of fundamental problems and special subjects in the topics of Cell Biology and Molecular Genetics.*

| | | |
|---|---|---|
| 0101 | Wenxia Song, Sougata Roy<br>**Meets October 16, 2024 - December 9, 2024**<br>TuTh 4:00pm - 6:00pm | Seats (Total: 30)<br><br><br>MCB 1123 |

**CBMG688J** **Special Topics in Cell Biology and Molecular Genetics; Genetics: Immunology and Host Defense**

*Presentation and discussion of fundamental problems and special subjects in the topics of Cell Biology and Molecular Genetics.*

| | | |
|---|---|---|
| 0101 | David Mosser, Roy Mariuzza<br>**Meets August 26, 2024 - October 15, 2024**<br>MW 4:00pm - 6:00pm | Seats (Total: 12)<br><br><br>BRB 3101 |

**CBMG688K** **Special Topics in Cell Biology and Molecular Genetics; Genetics: Molecular Virology**

*Presentation and discussion of fundamental problems and special subjects in the topics of Cell Biology and Molecular Genetics.*

| | | | |
|---|---|---|---|
| 0101 | Margaret Scull, Jeffrey DeStefano<br>**Meets October 16, 2024 - December 9, 2024**<br>MW 3:00pm - 5:00pm | Seats (Total: 20)<br><br>BRB 1210 | |

**CBMG688W** **Special Topics in Cell Biology and Molecular Genetics; Principles of Microscopy**

*Presentation and discussion of fundamental problems and special subjects in the topics of Cell Biology and Molecular Genetics.*

| | | | |
|---|---|---|---|
| 0101 | Amy Beaven<br>**Meets October 16, 2024 - December 9, 2024**<br>Tu 8:00am - 9:00am<br>Tu 10:00am - 11:50am | Seats (Total: 4)<br><br>MCB 1123<br>MCB 0107 | <br><br><br>Lab |
| 0102 | Amy Beaven<br>**Meets October 16, 2024 - December 9, 2024**<br>Tu 8:00am - 9:00am<br>W 9:00am - 10:50am | Seats (Total: 3)<br><br>MCB 1123<br>MCB 0107 | <br><br><br>Lab |
| 0103 | Amy Beaven<br>**Meets October 16, 2024 - December 9, 2024**<br>Tu 8:00am - 9:00am<br>Th 9:00am - 10:50am | Seats (Total: 3)<br><br>MCB 1123<br>MCB 0107 | <br><br><br>Lab |

**CBMG699** **Special Problems in Cell Biology and Molecular Genetics**

*Emphasis is placed on research and discussion of current problems in the area of Cell Biology and Molecular Genetics.*

**Contact department for information to register for this course.**

**CBMG699D** **Special Problems in Cell Biology and Molecular Genetics; Molecular Genetics: Bioinformatics and Computation Biology**

*Emphasis is placed on research and discussion of current problems in the area of Cell Biology and Molecular Genetics.*

Contact department or instructor for details.

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|---|---|---|---|
| 0101 | Stephen Mount<br>W 12:00pm - 1:00pm | Seats (Total: 20)<br>BRB 1103 | |

**CBMG699K** **Special Problems in Cell Biology and Molecular Genetics; Biological Sciences Teaching and Learning in Higher Education**

(Perm req)

*Emphasis is placed on research and discussion of current problems in the area of Cell Biology and Molecular Genetics.*

Cross-listed with BIOL608K, CHEM608K, and ENTM699K. Credit will be grant edfor only one of the following: BIOL608K, CBMG699K, CHEM608K, or ENTM699K.

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|---|---|---|---|
| 0101 | Gili Ad-Marbach | Seats (Total: 12) | |
| | W 11:00am - 12:40pm | BPS 1208 | |

**CBMG699X** **Special Problems in Cell Biology and Molecular Genetics; Host Pathogen Interactions**

*Emphasis is placed on research and discussion of current problems in the area of Cell Biology and Molecular Genetics.*

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|---|---|---|---|
| 0101 | David Mosser | Seats (Total: 20) | |
| | F 3:00pm - 4:00pm | ONLINE | |

**CBMG799** **Masters Thesis Research**

*Master's Thesis Research in Cell Biology and Molecular Genetics.*

**Contact department for information to register for this course.**

**CBMG898** **Pre-Candidacy Research**

*Pre-candidacy Research.*

**Contact department for information to register for this course.**

**CBMG899** **Doctoral Dissertation Research**

(Perm req)

*Doctoral Dissertation Research.*

**Contact department for information to register for this course.**

# CCJS Criminology and Criminal Justice Fall 2024

**CCJS100** **Introduction to Criminal Justice**

*Introduction to the administration of criminal justice in a democratic society, with emphasis on the theoretical and historical development of law enforcement. The principles of organization and administration for law enforcement; functions and specific activities; planning and research; public relations; personnel and training; inspection and control; direction; policy formulation.*

| | | | |
|---|---|---|---|
| 0101 | Justine Madoo | Seats (Total: 30) | |
| | MW 10:00am - 10:50am | LEF 2205 | |
| | M 11:00am - 11:50am | JMZ 0125 | Discussion |

| | | | |
|---|---|---|---|
| 0102 | Justine Madoo<br>MW 10:00am - 10:50am<br>M 12:00pm - 12:50pm | Seats (Total: 30)<br>LEF 2205<br>JMZ 0103 | Discussion |
| 0103 | Justine Madoo<br>MW 10:00am - 10:50am<br>M 1:00pm - 1:50pm | Seats (Total: 30)<br>LEF 2205<br>KEY 0100 | Discussion |
| 0104 | Justine Madoo<br>MW 10:00am - 10:50am<br>M 3:00pm - 3:50pm | Seats (Total: 30)<br>LEF 2205<br>SQH 1121 | Discussion |
| 0105 | Justine Madoo<br>MW 10:00am - 10:50am<br>W 11:00am - 11:50am | Seats (Total: 30)<br>LEF 2205<br>LEF 1201 | Discussion |
| 0106 | Justine Madoo<br>MW 10:00am - 10:50am<br>W 12:00pm - 12:50pm | Seats (Total: 30)<br>LEF 2205<br>LEF 1201 | Discussion |
| 0107 | Justine Madoo<br>MW 10:00am - 10:50am<br>W 1:00pm - 1:50pm | Seats (Total: 30)<br>LEF 2205<br>LEF 1201 | Discussion |
| 0108 | Justine Madoo<br>MW 10:00am - 10:50am<br>W 2:00pm - 2:50pm | Seats (Total: 30)<br>LEF 2205<br>LEF 1201 | Discussion |
| 0201 | Justine Madoo<br>MW 11:00am - 11:50am<br>M 10:00am - 10:50am | Seats (Total: 30)<br>LEF 2205<br>KEY 0125 | Discussion |
| 0202 | Justine Madoo<br>MW 11:00am - 11:50am<br>M 12:00pm - 12:50pm | Seats (Total: 30)<br>LEF 2205<br>TLF 1103 | Discussion |
| 0203 | Justine Madoo<br>MW 11:00am - 11:50am<br>M 1:00pm - 1:50pm | Seats (Total: 30)<br>LEF 2205<br>MMH 1304 | Discussion |

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|---|---|---|---|
| 0204 | Justine Madoo<br>MW 11:00am - 11:50am<br>M 2:00pm - 2:50pm | Seats (Total: 30)<br>LEF 2205<br>SQH 1101 | Discussion |
| 0205 | Justine Madoo<br>MW 11:00am - 11:50am<br>W 10:00am - 10:50am | Seats (Total: 30)<br>LEF 2205<br>WDS 0104 | Discussion |
| 0206 | Justine Madoo<br>MW 11:00am - 11:50am<br>W 12:00pm - 12:50pm | Seats (Total: 30)<br>LEF 2205<br>JMZ 0125 | Discussion |
| 0207 | Justine Madoo<br>MW 11:00am - 11:50am<br>W 1:00pm - 1:50pm | Seats (Total: 30)<br>LEF 2205<br>KEY 0102 | Discussion |
| 0208 | Justine Madoo<br>MW 11:00am - 11:50am<br>W 2:00pm - 2:50pm | Seats (Total: 30)<br>LEF 2205<br>TLF 1103 | Discussion |
| FC01 | Cortney Fisher<br>MW 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 38)<br>KEY 0103 | |

**CCJS105** **Introduction to Criminology**

*Criminal behavior and the methods of its study; causation; typologies of criminal acts and offenders; punishment, correction and incapacitation; prevention of crime.*

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|---|---|---|---|
| 0101 | Selena Price<br>MW 10:00am - 10:50am<br>M 9:00am - 9:50am | Seats (Total: 30)<br>KEY 0106<br>KEY 0121 | Discussion |
| 0102 | Selena Price<br>MW 10:00am - 10:50am<br>M 11:00am - 11:50am | Seats (Total: 30)<br>KEY 0106<br>KEY 0100 | Discussion |
| 0103 | Selena Price<br>MW 10:00am - 10:50am<br>M 12:00pm - 12:50pm | Seats (Total: 30)<br>KEY 0106<br>JMZ 3205 | Discussion |

| | | | |
|---|---|---|---|
| 0104 | Selena Price<br>MW 10:00am - 10:50am<br>M 1:00pm - 1:50pm | Seats (Total: 30)<br>KEY 0106<br>TLF 1101 | Discussion |
| 0105 | Selena Price<br>MW 10:00am - 10:50am<br>W 9:00am - 9:50am | Seats (Total: 30)<br>KEY 0106<br>KEY 0121 | Discussion |
| 0106 | Selena Price<br>MW 10:00am - 10:50am<br>W 11:00am - 11:50am | Seats (Total: 30)<br>KEY 0106<br>MMH 1304 | Discussion |
| 0107 | Selena Price<br>MW 10:00am - 10:50am<br>W 12:00pm - 12:50pm | Seats (Total: 30)<br>KEY 0106<br>TLF 1103 | Discussion |
| 0108 | Selena Price<br>MW 10:00am - 10:50am<br>W 1:00pm - 1:50pm | Seats (Total: 30)<br>KEY 0106<br>KEY 0116 | Discussion |
| 0201 | Selena Price<br>MW 12:00pm - 12:50pm<br>M 10:00am - 10:50am | Seats (Total: 30)<br>LEF 2205<br>LEF 1220 | Discussion |
| 0202 | Selena Price<br>MW 12:00pm - 12:50pm<br>M 11:00am - 11:50am | Seats (Total: 30)<br>LEF 2205<br>LEF 1220 | Discussion |
| 0203 | Selena Price<br>MW 12:00pm - 12:50pm<br>M 1:00pm - 1:50pm | Seats (Total: 30)<br>LEF 2205<br>SQH 1121 | Discussion |
| 0204 | Selena Price<br>MW 12:00pm - 12:50pm<br>M 2:00pm - 2:50pm | Seats (Total: 30)<br>LEF 2205<br>SQH 1121 | Discussion |
| 0205 | Selena Price<br>MW 12:00pm - 12:50pm<br>W 10:00am - 10:50am | Seats (Total: 30)<br>LEF 2205<br>KEY 0125 | Discussion |

| | | | |
|---|---|---|---|
| 0206 | Selena Price<br>MW 12:00pm - 12:50pm<br>W 11:00am - 11:50am | Seats (Total: 30)<br>LEF 2205<br>KEY 0100 | Discussion |
| 0207 | Selena Price<br>MW 12:00pm - 12:50pm<br>W 1:00pm - 1:50pm | Seats (Total: 30)<br>LEF 2205<br>KEY 0125 | Discussion |
| 0208 | Selena Price<br>MW 12:00pm - 12:50pm<br>W 2:00pm - 2:50pm | Seats (Total: 30)<br>LEF 2205<br>KEY 0125 | Discussion |
| FC01 | Madeline Romm<br>MW 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 38)<br>TWS 1100 | |

**CCJS200** **Statistics for Criminology and Criminal Justice**

(Perm req)

*Prerequisite: CCJS100 or CCJS105; and 1 course with a minimum grade of C- from (STAT100, MATH107, MATH111, MATH120, MATH130, MATH135, MATH140). Restriction: Must be in Criminology and Criminal Justice program; or permission of BSOS-Criminology & Criminal Justice department.*

*Introduction to descriptive and inferential statistics, graphical techniques, and the computer analysis of criminology and criminal justice data. Basic procedures of hypothesis testing, correlation and regression analysis, and the analysis of continuous and binary dependent variables. Emphasis upon the examination of research problems and issues in criminology and criminal justice.*

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|---|---|---|---|
| 0201 | Sarah Tahamont<br>TuTh 11:00am - 12:15pm<br>F 9:00am - 9:50am | Seats (Total: 30)<br>LEF 2205<br>KEY 0121 | Discussion |
| 0202 | Sarah Tahamont<br>TuTh 11:00am - 12:15pm<br>F 10:00am - 10:50am | Seats (Total: 30)<br>LEF 2205<br>JMP 1202 | Discussion |
| 0203 | Sarah Tahamont<br>TuTh 11:00am - 12:15pm<br>F 11:00am - 11:50am | Seats (Total: 30)<br>LEF 2205<br>ASY 1213 | Discussion |

| | | | |
|---|---|---|---|
| 0204 | Sarah Tahamont<br>TuTh 11:00am - 12:15pm<br>F 12:00pm - 12:50pm | Seats (Total: 30)<br>LEF 2205<br>JMZ 0103 | Discussion |
| 0205 | Sarah Tahamont<br>TuTh 11:00am - 12:15pm<br>F 1:00pm - 1:50pm | Seats (Total: 30)<br>LEF 2205<br>KEY 0102 | Discussion |
| 0206 | Sarah Tahamont<br>TuTh 11:00am - 12:15pm<br>F 2:00pm - 2:50pm | Seats (Total: 30)<br>LEF 2205<br>JMZ 1122 | Discussion |

**CCJS225** **Responses to Violence**

*What are the dimensions of violence in the United States and worldwide, and how has humanity responded to violence? Conflict is unfortunately resolved through violence in a number of settings. It ranges from interpersonal to international in its scope. This course investigates the strengths and weaknesses of a number of resolutions to reducing violence over the course of history using both state centered and informal control.*

| | | | |
|---|---|---|---|
| 0101 | Min Xie<br>MW 2:00pm - 3:15pm | Seats (Total: 48)<br>TYD 1118 | |
| 0201 | Thomas Abt<br>W 3:00pm - 5:30pm | Seats (Total: 48)<br>LEF 2166 | |

**CCJS230** **Criminal Law in Action**

(Perm req)

*Prerequisite: CCJS100.*

*Law as one of the methods of social control. Criminal law: its nature, sources and types; theories and historical developments. Behavioral and legal aspects of criminal acts. Classification and analysis of selected criminal offenses.*

| | | | |
|---|---|---|---|
| 0101 | Cortney Fisher<br>TuTh 9:30am - 10:45am | Seats (Total: 100)<br>JMZ 0220 | |
| 0201 | Russell Hamill<br>W 4:00pm - 6:30pm | Seats (Total: 100)<br>LEF 2205 | |

**CCJS278B** **Special Topics in Criminology and Criminal Justice; Lynching, Race, and the Law**

*Topics of special interest to undergraduates in criminology and criminal justice. Offered in response to student request and faculty interest. May be delivered online.*

| | | |
|---|---|---|
| 0101 | Demar Lewis<br>MW 3:30pm - 4:45pm | Seats (Total: 50)<br>TWS 1310 |

**CCJS300** **Criminological and Criminal Justice Research Methods**

(Perm req)

*Prerequisite: CCJS100 and CCJS105; and (PSYC200, CCJS200, ECON321, BMGT230, or SOCY201).*

*Introduction to the formulation of research questions covering crime and justice, research designs, data collection, and interpretation and reporting in criminological and justice-system settings.*

| | | |
|---|---|---|
| 0101 | Brett Lacey<br>MW 9:00am - 10:15am | Seats (Total: 55)<br>TYD 1132 |
| 0201 | Brett Lacey<br>MW 10:30am - 11:45am | Seats (Total: 55)<br>TYD 1132 |
| 0301 | Alan Lehman<br>TuTh 11:00am - 12:15pm | Seats (Total: 60)<br>SQH 1119 |
| 0401 | Alan Lehman<br>TuTh 12:30pm - 1:45pm | Seats (Total: 60)<br>SQH 1119 |
| ESG1 | Christina Lentz<br>Tu 12:30pm - 3:00pm | Seats (Total: 40)<br>BLD3 2202 |
| | *Restricted to students in the Criminology & Criminal Justice Program at USG.* | |

**CCJS301** **Fundamentals in Criminal Justice**

*Restriction: Must be enrolled at The Universities at Shady Grove; and must be in the Criminal Justice minor; or by permission of department; and must not be in the Criminology and Criminal Justice major.*

*Provides an overview of the three major components of the American criminal justice system: police, courts, and corrections. Each component will be explored in its development over time as well as various issues surrounding each component. This course will also cover important issues that are relevant to current debates including race, reentry, technology and crime, juvenile justice, and future directions for criminal justice.*

| | | |
|---|---|---|
| ESG1 | Cortney Fisher<br>Class time/details on ELMs | Seats (Total: 40)<br>ONLINE |
| | *Open to all UMD students at USG who are not CCJS majors.* | |

**CCJS310** **Criminal Investigations**

*Prerequisite: CCJS100 and CCJS230.*

*An introduction to modern methods used in detection, investigation, and solution of crime. Students will be taught basic and advanced investigative techniques utilized by law enforcement agencies. Analysis of actual cases will be used to demonstrate practical uses of these techniques.*

| | | |
|---|---|---|
| ESG1 | Jennifer Karschner | Seats (Total: 30) |
| | W 5:00pm - 7:30pm | BLD2 2062 |
| | *Restricted to students in the Criminology & Criminal Justice program at USG.* | |

**CCJS315** **Ethics in Criminal Justice**

*Prerequisite: CCJS100. Credit only granted for: CCJS315 or CCJS498L. Formerly: CCJS498L.*

*Introduces the study of ethics and ethical decision making as it is applied to the criminal justice system. Students will be introduced to consequential philosophers and their work, and will discuss those theories in terms of how decision making is applied in policing, courts, corrections, the juvenile system, victim services, and the medical system. There will be a special discussion of how ethical decision making intersects with racism, classism, and sexism in criminal justice. Students will be able to assess the intersections of race, gender, age, sexual orientation, ethnicity, and class and the way those identities impact ethical decision making of acts.*

| | | |
|---|---|---|
| ESG1 | Cortney Fisher | Seats (Total: 40) |
| | W 11:00am - 12:15pm<br>Class time/details on ELMs | BLD3 3220<br>ONLINE |
| | *Restricted to students in the Criminology & Criminal Justice program at USG.* | |

**CCJS318C** **Special Topics in Criminology & Criminal Justice; Public Speaking for Criminal Justice Professionals**

(Perm req)

*Special topics in various aspects of the field of criminology and criminal justice will be covered.*

Prerequisites: CCJS100 or CCJS105. Restriction: Must be a major within the BSOS-Criminology & Criminal Justice department.

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|---|---|---|
| 0101 | Thomas Mauriello | Seats (Total: 30) |
| | M 2:00pm - 4:30pm | MMH 2401 |

**CCJS318E** **Special Topics in Criminology & Criminal Justice; The Hostage Negotiator: Crisis Communication Skills**

*Special topics in various aspects of the field of criminology and criminal justice will be covered.*

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|---|---|---|
| ESG1 | Edward Pallas | Seats (Total: 40) |
| | Th 2:00pm - 4:30pm | BLD3 3230 |
| | *Restricted to students in the Criminology & Criminal Justice program at USG.* | |

**CCJS320** **Introduction to Criminalistics**

(Perm req)

*Prerequisite: CCJS100 and CCJS230.*

*An introduction to modern methods used in the detection, investigation and solution of crimes. Practical analysis of evidence in a crime laboratory, including fingerprints and other impressions, firearms ID and ballistics, hairs and fibers, document examination, and use of polygraph.*

Students must pay a $53.00 lab fee.

| | | | |
|---|---|---|---|
| 0101 | Thomas Mauriello<br>Class time/details on ELMs<br>M 10:00am - 12:00pm | Seats (Total: 24)<br>ONLINE<br>MMH 2401 | Lab |
| 0201 | Danielle O'Neill<br>Class time/details on ELMs<br>Tu 3:30pm - 5:30pm | Seats (Total: 24)<br>ONLINE<br>MMH 2401 | Lab |
| 0301 | Danielle O'Neill<br>Class time/details on ELMs<br>Tu 6:00pm - 8:00pm | Seats (Total: 24)<br>ONLINE<br>MMH 2401 | Lab |

**CCJS325** **Slavery in the Twenty First Century: Combating Human Trafficking**

*What is human trafficking and how do we stop it? An introduction to the trafficking of human beings in its historical, legal, economic, political and social contexts. Scope of the global problem, different forms of human trafficking, and regional trends and practices. Roles of government, the international community and individual actors. Strategies to combat trafficking.*

| | | |
|---|---|---|
| 0101 | Jessica Morabito<br>MWF 10:00am - 10:50am | Seats (Total: 50)<br>TYD 2106 |

**CCJS331** **Contemporary Legal Policy Issues**

*Prerequisite: CCJS100 and CCJS230.*

*In-depth examination of selected topics. Criminal responsibility. Socio-legal policy alternatives with regard to deviance. Law enforcement procedures for civil law and similar legal problems. Admissibility of evidence. Representation. Indigent's right to counsel.*

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|---|---|---|
| ESG1 | Alan Drew<br>Tu 9:30am - 12:00pm<br>*Restricted to students in the Criminology & Criminal Justice program at USG.* | Seats (Total: 40)<br>BLD3 2230 |

**CCJS332** **Major Transitions: From Undergraduate to Professional**

(Perm req)

*Restriction: Must be in Criminology and Criminal Justice program; and sophomore standing or higher.*

*This course is designed to assist criminology and criminal justice students explore career opportunities. Topics will include: graduate school, law school, career opportunities in federal, state, local, and public agencies, resume writing, and internships.*

| | | |
|---|---|---|
| 0101 | Shannon Sibel<br>W 1:00pm - 1:50pm | Seats (Total: 30)<br>TYD 1114 |

**CCJS340** **Policing**

(Perm req)

*Prerequisite: CCJS100.*

*Critical issues relating to policing. Topics include police discretion, role of police, use of force, misconduct, police research, administration, personnel, and etc.*

| | | |
|---|---|---|
| 0201 | David Mitchell<br>M 5:00pm - 7:30pm | Seats (Total: 75)<br>SYM 0200 |
| 0301 | Michael Weller<br>TuTh 3:30pm - 4:45pm | Seats (Total: 60)<br>SQH 1119 |
| ESG1 | Nicole Romeiser<br>M 9:30am - 12:00pm<br>*Restricted to students in the Criminology & Criminal Justice Program at USG.* | Seats (Total: 40)<br>BLD3 3230 |

**CCJS342** **Corrections**

(Perm req)

*Prerequisite: CCJS100. Restriction: Must be in a major within the BSOS-Criminology & Criminal Justice department. Credit only granted for: CCJS342 or CCJS452.*

*Examination of the American correctional system. Identification of historical and contemporary themes, issues, and trends. Evaluation of correctional policies, practices and research.*

| | | |
|---|---|---|
| 0101 | Jessica Morabito<br>MWF 12:00pm - 12:50pm | Seats (Total: 55)<br>TYD 1132 |
| 0401 | Rachel Ellis<br>TuTh 2:00pm - 3:15pm | Seats (Total: 60)<br>SQH 1120 |

**CCJS345** **Courts and Sentencing**

(Perm req)

*Prerequisite: CCJS100. Restriction: Must be in a major within the BSOS-Criminology & Criminal Justice department.*

*Contemporary issues in the American court system such as prosecution, sentencing and punishment. Theoretical perspectives on courtroom decision-making integrated with empirical research. Courts and sentencing processes, including initial charging, pretrial detention and final sentencing outcomes. Innovations in courts and sentencing.*

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|---|---|---|---|
| 0101 | Robert Stewart<br>TuTh 3:30pm - 4:45pm | Seats (Total: 60)<br>HJP 2242 | |
| 0401 | Cortney Fisher<br>TuTh 11:00am - 12:15pm | Seats (Total: 75)<br>JMZ 0220 | |
| ESG1 | Carlotta Woodward<br>M 12:30pm - 1:45pm<br>Class time/details on ELMs | Seats (Total: 40)<br>BLD3 3230<br>ONLINE | Discussion |
| | *Restricted to students in the Criminology & Criminal Justice Program at USG.* | | |

**CCJS346** **Domestic Violence**

(Perm req)

*Prerequisite: CCJS100. Credit only granted for: CCJS346 or CCJS498Y. Formerly: CCJS498Y.*

*A thorough and critical examination of family violence. Topics include the historical background to family violence, methods of studying this serious issue, elder abuse, child abuse, the cultural factors involved in intimate partner violence, violence in same-sex relationships, and the criminal justice response to family violence. Although the course focuses on the American family, illustrations from other cultures are provided.*

| | | |
|---|---|---|
| 0101 | Nicole Romeiser<br>TuTh 12:30pm - 1:45pm | Seats (Total: 50)<br>TYD 1132 |

**CCJS352** **Drugs and Crime**

(Perm req)

*Prerequisite: CCJS100.*

*An analysis of the role of criminal justice in the control of drug use and abuse.*

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|---|---|---|
| 0101 | Brett Lacey<br>TuTh 11:00am - 12:15pm | Seats (Total: 50)<br>TYD 1132 |

**CCJS358B** **Special Topics in Study Abroad III; Criminology in Scandanavia**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**CCJS358E** **Special Topics in Study Abroad III; Drugs and Drug Prevention in Central Europe**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**CCJS359** **Field Training in Criminology and Corrections**

(Perm req)

*Supervised field training in public or private social agencies. Group meetings, individual conferences and written program reports.*

Prerequisites: CCJS 105 or CRIM 220; and CCJS 350 or CRIM 450; and permission of department. For majors only.

**Contact department for information to register for this course.**

**CCJS370** **Race, Crime and Criminal Justice**

(Perm req)

*Role and treatment of racial/ethnic minorities in the criminal justice system. Course will provide students with historical and theoretical framework for understanding this dynamic.*

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|---|---|---|
| 0101 | Demar Lewis<br>MW 2:00pm - 3:15pm | Seats (Total: 50)<br>TWS 1107 |
| 0201 | Brooklynn Hitchens<br>TuTh 12:30pm - 1:45pm | Seats (Total: 50)<br>TWS 1107 |
| ESG1 | Richard Harris<br>Th 11:00am - 1:30pm | Seats (Total: 40)<br>BLD3 3230 |
| | *Restricted to students in the Criminology & Criminal Justice program at USG.* | |

**CCJS386** **Experiential Learning**

(Perm req)

*Restriction: Permission of BSOS-Criminology & Criminal Justice department; and junior standing or higher.*

**Contact department for information to register for this course.**

**CCJS388H** **Independent Reading Course in Criminology and Criminal Justice**

(Perm req)

*Designed for the needs of honor students in criminology and criminal justice.*

| | | |
|---|---|---|
| 0101 | Robert Brame<br>Tu 4:00pm - 6:30pm | Seats (Total: 20)<br>JMZ 0118 |

**CCJS389H** **Independent Research in Criminology and Criminal Justice**

(Perm req)

*Independent Research for CCJS Departmental Honors students.*

**Contact department for information to register for this course.**

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**CCJS398** **Law Enforcement Field Training**

(Perm req)

*Supervised, structured and focused field training in law enforcement agencies.*

Prerequisite: junior standing. For majors only.

**Contact department for information to register for this course.**

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**CCJS399** **Independent Study in Criminology and Criminal Justice**

(Perm req)

*Integrated reading or research under direction and supervision of a faculty member.*

Prerequisite: written consent of faculty under whose direction the study is to be performed, and at least twelve hours of CCJS credits.

**Contact department for information to register for this course.**

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**CCJS418D** **Seminar in Criminology and Criminal Justice; Evolving Legal Issues**

(Perm req)

*Selected topics of interest in the field of Criminology and Criminal Justice will be covered.*

Prerequisite: CCJS100 and CCJS230.

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|---|---|---|
| 0101 | David Salem<br>W 6:00pm - 8:30pm | Seats (Total: 50)<br>TYD 2106 |

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**CCJS418E** **Seminar in Criminology and Criminal Justice; Coding for Criminology**

(Perm req)

*Selected topics of interest in the field of Criminology and Criminal Justice will be covered.*

Prerequisite: CCJS100, CCJS105, CCJS200 and CCJS300. Restriction: Permission of department.

| | | |
|---|---|---|
| 0101 | Zubin Jelveh<br>Tu 3:30pm - 4:45pm<br>Th 3:30pm - 4:45pm | Seats (Total: 50)<br>ONLINE<br>SQH 1120 |

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**CCJS418G** **Seminar in Criminology and Criminal Justice; Urban Crime and Violence**

(Perm req)

*Selected topics of interest in the field of Criminology and Criminal Justice will be covered.*

Prerequisite: CCJS100, CCJS105, and CCJS300. Restriction: Permission of department.

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|---|---|---|
| 0101 | Brooklynn Hitchens<br>Tu 3:30pm - 6:00pm | Seats (Total: 50)<br>TYD 1132 |

**CCJS418P** **Seminar in Criminology and Criminal Justice; Marijuana, Law and Society**

(Perm req)

*Selected topics of interest in the field of Criminology and Criminal Justice will be covered.*

Prerequisites: CCJS100 and CCJS105.

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|---|---|---|
| 0101 | Alan Lehman<br>TuTh 2:00pm - 3:15pm | Seats (Total: 50)<br>SQH 1119 |

**CCJS418U** **Seminar in Criminology and Criminal Justice; Community Corrections**

(Perm req)

*Selected topics of interest in the field of Criminology and Criminal Justice will be covered.*

Prerequisites: CCJS100, CCJS105, and CCJS300.

| | | |
|---|---|---|
| 0101 | Selena Price<br>TuTh 9:30am - 10:45am | Seats (Total: 48)<br>ARC 1105 |

**CCJS450** **Advanced Juvenile Delinquency**

(Perm req)

*Prerequisite: CCJS105 and CCJS300. Credit only granted for: CCJS350 or CCJS450.*

*Examination of juvenile delinquency in the United States. Nature and extent of juvenile delinquency, historical approaches, sociological and criminological theories and research, social contexts including the institutions of families, schools, and peers, and social responses. Prevention, punishment, and treatment programs, both within and outside of the juvenile justice and criminal justice systems.*

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|---|---|---|
| 0101 | Jessica Morabito<br>M 2:00pm - 4:30pm | Seats (Total: 50)<br>SQH 1117 |
| 0201 | Jessica Morabito<br>MWF 11:00am - 11:50am | Seats (Total: 50)<br>TYD 2106 |

**CCJS451** **Crime and Delinquency Prevention**

(Perm req)

*Prerequisite: CCJS105 and CCJS300.*

*Methods and programs in prevention of crime and delinquency.*

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|---|---|---|
| 0101 | Selena Price<br>TuTh 11:00am - 12:15pm | Seats (Total: 50)<br>ARC 1101 |
| 0201 | Brett Lacey<br>TuTh 9:30am - 10:45am | Seats (Total: 48)<br>LEF 2166 |
| ESG1 | Thomas Alexander<br>Class time/details on ELMs<br>*Restricted to students in the Criminology & Criminal Justice Program at USG.* | Seats (Total: 40)<br>ONLINE |

**CCJS453** **White Collar and Organized Crime**

*Prerequisite: CCJS300; and (CCJS350 or CCJS105).*

*Definition, detection, prosecution, sentencing and impact of white collar and organized crime. Special consideration given to the role of federal law and enforcement practices.*

| | | |
|---|---|---|
| ESG1 | James Trusty<br>Tu 6:30pm - 9:00pm<br>*Restricted to students in the Criminology & Criminal Justice program at USG.* | Seats (Total: 40)<br>BLD3 3202 |

**CCJS454** **Contemporary Criminological Theory**

(Perm req)

*Prerequisite: CCJS300 and CCJS105.*

*Examination of the main theoretical accounts that explain the underlying causes of criminal behaviors. Explore how individual choices, socialization experiences, biological factors and social structure affect criminal behaviors.*

| | | |
|---|---|---|
| 0201 | Maria Velez<br>MW 2:00pm - 3:15pm | Seats (Total: 50)<br>VMH 1207 |

**CCJS489H** **Honors Thesis Research**

(Perm req)

*Designed for students completing their honors thesis.*

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|---|---|---|
| 0101 | Wade Jacobsen<br>M 2:00pm - 4:30pm | Seats (Total: 20)<br>LEF 2165E |

**CCJS498N** **Selected Topics in Criminology and Criminal Justice; Community Policing**

*Topics of special interest to advanced undergraduates in criminology and criminal justice. Offered in response to student request and faculty interest.*

| | | |
|---|---|---|
| ESG1 | Kristina Hedgepeth | Seats (Total: 40) |
| | Class time/details on ELMs | ONLINE |
| | *Restricted to students in the Criminology & Criminal Justice program at USG.* | |

**CCJS498O** **Selected Topics in Criminology and Criminal Justice; Crossover Youth: The Intersection of the Child Welfare and Criminal Justice Systems**

*Topics of special interest to advanced undergraduates in criminology and criminal justice. Offered in response to student request and faculty interest.*

| | | |
|---|---|---|
| ESG1 | Louis Morlier | Seats (Total: 40) |
| | Tu 3:30pm - 6:00pm | BLD3 2230 |
| | *Restricted to students in the Criminology & Criminal Justice program at USG.* | |

**CCJS600** **Criminal Justice**

*Restriction: Must be in one of the following programs (Criminology and Criminal Justice (Master's); Criminology and Criminal Justice (Doctoral)) ; or permission of BSOS-Criminology & Criminal Justice department. Formerly: CJUS600.*

*Current concept of criminal justice in relationship to other concepts in the field. Historical perspective. Criminal justice and social control. Operational implications. Systemic aspects. Issues of evaluation.*

| | | |
|---|---|---|
| 0101 | Brian Johnson | Seats (Total: 20) |
| | W 4:00pm - 6:45pm | LEF 2165E |

**CCJS604** **Policy Analysis Project**

(Perm req)

*An application of statistical and conceptual tools to criminal justice data in the student's area of concentration, resulting in a paper reporting the conceptualization, analytic methods and results. The topic of the independent study will be chosen through individual consultation with the instructor.*

**Contact department for information to register for this course.**

**CCJS620** **Fundamentals of Criminological Research**

*Credit only granted for: CCJS498D or CCJS620. Formerly: CCJS498D.*

*Designed to help criminology students understand and apply three important components of statistics: decriptive statistics (including probability theory), fundamentals of statistical inference, and regression analysis. Course assumes familiarity with basic descriptive statistics. The emphasis of the classes on descriptive statistics is the calculation and interpretation of summary statistical measures for describing raw data. Covers the basic rules of probability and different probabilistic processes that could describe criminal activity. The sessions on fundamentals of statistical inferences are designed to provide background for executing and interpreting hypothesis tests and confidence intervals. The latter portion of the course focuses on regession analysis. Uses the statistical software, Stata.*

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|---|---|---|
| 0101 | Sarah Tahamont | Seats (Total: 35) |
| | Tu 4:00pm - 6:45pm | LEF 2165E |

**CCJS631** **Ethics in Criminal Justice**

*Restriction: Must be in one of the following programs: Criminology and Criminal Justice (Master's); Criminology and Criminal Justice (Doctoral); Sociology (Master's); Sociology (Doctoral); or permission from BSOS-Criminology & Criminal Justice department.*

*Provides students with an overview of the major ethical perspectives, which are typically used to inform and justify the workings of the criminal justice system. The course draws on a number of case studies in order to introduce students to a broad range of ethical dilemmas, and students develop and hone a decision-making process designed to resolve such dilemmas.*

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|---|---|---|
| PLL1 | Lester Andrist | Seats (Total: 20) |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Graduate Programs in Public Safety Leadership and Administration or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.* | |

**CCJS632** **Making Sense of Criminal Justice Methods and Statistics**

*Restriction: Must be in one of the following programs: Criminology and Criminal Justice (Master's); Criminology and Criminal Justice (Doctoral); Sociology (Master's); Sociology (Doctoral); Master of Professional Studies in Public Safety Leadership and Administration (MPLA); Graduate Certificate in Criminal Justice Administration (Z130); or permission from BSOS-Criminology & Criminal Justice department.*

*Teaches students how to better understand research that relies on statistics and to then apply this understanding to common criminal justice problems. The course will introduce basic statistical concepts that are necessary for analyzing crime and evaluating criminal justice programs and policies. Students will learn to interpret and assess the quality of reports that present crime trends, descriptive statistics, correlations, data mining efforts, geo-spatial and social media analytics, risk analysis for repeat offenders, hot spots of crime, and experimental research. By the end of the semester, students will learn to assess critically the quality of published research and evaluate its implications for criminal justice policy.*

| | | |
|---|---|---|
| PLL1 | Lester Andrist | Seats (Total: 20) |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Graduate Programs in Public Safety Leadership and Administration or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.* | |

**CCJS650** **Research Practicum**

*Provides the opportunity for students to develop and complete a research project, which will provide information on research proficiency for the determination of advancement to doctoral candidacy*

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|---|---|---|
| 0101 | Min Xie | Seats (Total: 20) |
| | M 4:00pm - 6:45pm | LEF 1222 |

**CCJS653** **Seminar in Corrections**

*Prerequisite: CCJS651; or students who have taken courses with comparable content may contact the department. Formerly: CRIM653.*

*Development, operation and future of correctional systems.*

| | | |
|---|---|---|
| 0101 | Robert Stewart | Seats (Total: 20) |
| | M 3:00pm - 5:45pm | LEF 2207 |

**CCJS654** **History of Criminological Thought**

*Prerequisite: CCJS454; or students who have taken courses with comparable content may contact the department. Formerly: CRIM654.*

*A study of the development of criminological thought from antiquity to the present.*

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|---|---|---|
| 0101 | Lauren Porter | Seats (Total: 20) |
| | Tu 4:00pm - 6:45pm | LEF 2207 |

**CCJS699** **Special Criminological Problems**

*Supervised study of a selected problem in the field of criminal justice.*

**Contact department for information to register for this course.**

**CCJS699I** **Special Criminological Problems; Communities and Crime**

*Supervised study of a selected problem in the field of criminal justice.*

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|---|---|---|
| 0101 | Maria Velez | Seats (Total: 20) |
| | W 4:00pm - 6:45pm | LEF 2207 |

**CCJS699Q** **Special Criminological Problems; Seminar on Qualitative Analysis**

*Supervised study of a selected problem in the field of criminal justice.*

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|---|---|---|
| 0101 | Rachel Ellis | Seats (Total: 20) |
| | Th 4:00pm - 6:45pm | LEF 2207 |

**CCJS710** **Advanced Statistics Methods - Limited Dependent Variables**

*Prerequisite: Must have completed an approved doctoral level statistics course. Formerly: CRIM710.*

*Application of advanced data analysis strategies to criminological and criminal justice problems, with specific focus on limited dependent variables.*

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|---|---|---|
| 0101 | Robert Brame | Seats (Total: 15) |
| | Th 4:00pm - 6:45pm | LEF 1201 |

**CCJS720** **Criminal Justice System Planning: Policy Analysis for Crime Control**

*Prerequisite: Must have completed 1 course in research methodology; and 1 course in CCJS. Formerly: CJUS720.*

*System theory and method; examination of planning methods and models based primarily on a systems approach to the operations of the criminal justice system.*

| | | |
|---|---|---|
| 0101 | Greg Midgette | Seats (Total: 20) |
| | W 4:00pm - 6:45pm | LEF 1220 |

**CCJS799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**CCJS898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**CCJS899** **Doctoral Dissertation Research**

(Perm req)

*Doctoral dissertation research in criminal justice and criminology.*

**Contact department for information to register for this course.**

# CHBE Chemical and Biomolecular Engineering Fall 2024

**CHBE100** **Exploring ChBE**

(Perm req)

*Prerequisite: Permission of instructor; and permission of ENGR-Chemical & Biomolecular Engineering department. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department.*

*Overview of the specializations and career paths available in chemical and biomolecular engineering. Academic planning, policies and resources will be covered including introduction to undergraduate research, study abroad, internship and co-op opportunities as well as chemical engineering student groups. A peer mentoring program will enable students to interact with successful upper-class chemical engineering students and build their chemical engineering peer network.*

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|---|---|---|---|
| 0101 | Ganesh Sriram, Kristen Fawole<br>W 3:00pm - 3:50pm | Seats (Total: 35)<br>AJC 2119 | |

**CHBE250** **Computer Methods in Chemical Engineering**

(Perm req)

*Prerequisite: CHBE101; and must have completed or be concurrently enrolled in MATH241. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE250 or ENCH250. Formerly: ENCH250.*

*Algorithm development and application of software to the analysis of chemical engineering problems. File management and editing, graphics and numerical methods. Use of spreadsheets, statistics/math software and process simulators for the design of chemical process equipment.*

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|---|---|---|---|
| 0101 | Hannah Zierden<br>TuTh 3:30pm - 4:45pm<br>M 1:00pm - 1:50pm | Seats (Total: 60)<br>ESJ 2309<br>ESJ 2212 | <br><br>Discussion |

**CHBE301** **Chemical and Biomolecular Engineering Thermodynamics I**

(Perm req)

*Prerequisite: CHBE101; and must have completed or be concurrently enrolled in CHBE250 and MATH241. Restriction: Must be in Engineering: Chemical program; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: ENCH300 or CHBE301. Formerly: ENCH300.*

*Principles of thermodynamics and their application to engineering problems. First and second laws of thermodynamics, properties of gases, liquids and solids, phase equilibrium, flow and non-flow systems, energy conversion, production of work from heat, thermodynamic analysis of processes, equilibrium stage operations and the thermodynamics of chemically reacting systems.*

| | | | |
|---|---|---|---|
| 0101 | Peter Kofinas<br>MWF 9:00am - 9:50am<br>F 10:00am - 10:50am | Seats (Total: 45)<br>CHE 2118<br>CHE 2118 | <br><br>Discussion |

**CHBE333** **Chemical Engineering Seminar**

(Perm req)

*Restriction: Junior standing; and must be in a major within ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE333 or ENCH333. Formerly: ENCH333.*

*To develop oral communication skills through a series of class presentations of current chemical engineering topics.*

| | | | |
|---|---|---|---|
| 0102 | Nam Sun Wang<br>M 11:00am - 11:50am | Seats (Total: 15)<br>CHE 2116 | |
| 0103 | Nam Sun Wang<br>W 1:00pm - 1:50pm | Seats (Total: 15)<br>CHE 2116 | |

**CHBE369** **Teaching Experiences in Chemical Engineering**

(Perm req)

*Students will obtain pedagogical experience by assisting with the teaching of undergraduate courses in Chemical and Biomolecular Engineering.*

**Contact department for information to register for this course.**

**CHBE410** **Statistics and Design of Experiments**

(Perm req)

*Prerequisite: Minimum grade of C- in CHBE250, MATH241, and MATH246. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE410 or ENCH476. Formerly: ENCH476.*

*An introduction to probability, statistics, and design of experiments for chemical engineers.*

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|---|---|---|---|
| 0101 | Juan Carlos Vega-Vila<br>MWF 10:00am - 10:50am<br>F 11:00am - 11:50am | Seats (Total: 80)<br>CHE 2110<br>CHE 2110 | <br><br>Discussion |

**CHBE422** **Chemical and Biomolecular Engineering Transport Phenomena I**

(Perm req)

*Prerequisite: Minimum grade of C- in CHBE101, CHBE250, MATH241, and MATH246. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE422 or ENCH422. Formerly: ENCH422.*

*Principals of fluid dynamics as applied to model development and process design. Mass, momentum and energy conservation. Statics and surface tension. Equation of Continuity and Navier-Stokes Equation with application to laminar flow. Dimensional analysis. Macroscopic balances, Bernoulli Equation and friction factors with application to turbulent flow.*

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|---|---|---|---|
| 0101 | Panagiotis Dimitrakopoulos | Seats (Total: 65) | |
| | TuTh 3:30pm - 4:45pm | CHE 2108 | |
| | F 1:00pm - 1:50pm | CHE 2108 | Discussion |

**CHBE437** **Chemical and Biomolecular Engineering Laboratory**

(Perm req)

*Prerequisite: CHBE424, CHBE426, and CHBE440. Restriction: Must be in a major within ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE437 or ENCH437. Formerly: ENCH437.*

*Application of chemical engineering process and unit operation principals in small-scale semi-commercial equipment. Data from experimental observations are used to evaluate performance and efficiency of operations. Emphasis on correct presentation of results inreport form.*

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|---|---|---|---|
| 0201 | Audaldo Ponce, Kristen Fawole | Seats (Total: 24) | |
| | Tu 11:00am - 3:00pm | CHE 1145 | Lab |
| | Tu 10:00am - 10:50am | ATL 2352 | Discussion |
| 0301 | Audaldo Ponce, Kristen Fawole | Seats (Total: 24) | |
| | Th 11:00am - 3:00pm | CHE 1145 | Lab |
| | Th 10:00am - 10:50am | EGR 3114 | Discussion |
| 0401 | Kristen Fawole, Audaldo Ponce | Seats (Total: 24) | |
| | F 1:00pm - 5:00pm | CHE 1145 | Lab |
| | F 10:00am - 10:50am | CHE 2136 | Discussion |

**CHBE440** **Chemical Kinetics and Reactor Design**

(Perm req)

*Prerequisite: Minimum grade of C- in CHBE301, MATH241, and MATH246. Restriction: Must be in Engineering: Chemical program; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE440 or ENCH440. Formerly: ENCH440.*

*Fundamentals of chemical reaction kinetics and their application to the design and operation of chemical reactors. Reaction rate theory, homogeneous reactions and catalysis electrochemical reactions. Catalytic reactor design.*

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|---|---|---|---|
| 0101 | Srinivasa Raghavan | Seats (Total: 60) | |
| | MWF 2:00pm - 2:50pm | CHE 2108 | |
| | M 1:00pm - 1:50pm | CHE 2108 | Discussion |

**CHBE442** **Chemical and Biomolecular Systems Analysis**

(Perm req)

*Prerequisite: CHBE424 and CHBE426. Credit only granted for: CHBE442 or ENCH442. Formerly: ENCH442.*

*Dynamic response applied to process systems. Goals and modes of control, Laplace transformations, analysis and synthesis of simple control systems, closed loop response, dynamic testing.*

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|---|---|---|---|
| 0101 | Raymond Adomaitis | Seats (Total: 100) | |
| | MWF 12:00pm - 12:50pm | CHE 2110 | |
| | W 4:00pm - 4:50pm | CHE 2110 | Discussion |

**CHBE444** **Process Engineering Economics and Design I**

(Perm req)

*Prerequisite: CHBE424, CHBE426, and CHBE440. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: CHBE444 or ENCH444. Formerly: ENCH444.*

*Principles of chemical engineering economics and process design. Equipment sizing and costing. Economic evaluation of projects. Flowsheet synthesis. Introduction to flowsheet simulators and concepts of flowsheet optimization. Synthesis of Heat Exchanger Networks and Distillation Sequences.*

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|---|---|---|---|
| 0101 | Ganesh Sriram | Seats (Total: 36) | |
| | TuTh 5:00pm - 6:15pm | ESJ 2212 | |
| | W 11:00am - 11:50am | AJC 2119 | Discussion |
| 0102 | Ganesh Sriram | Seats (Total: 36) | |
| | TuTh 5:00pm - 6:15pm | ESJ 2212 | |
| | W 2:00pm - 2:50pm | AJC 2119 | Discussion |

**CHBE452** **Introduction of Machine Learning in Chemical Engineering**

(Perm req)

*Recommended: Basic knowledge of chemical engineering, materials science, ordinary differential equations, and Python is desirable. Restriction: Permission of Department or Instructor. Jointly offered with: CHBE652. Credit only granted for: CHBE452 or CHBE652.*

*Introduction of data science and machine learning approaches to modern problems in chemical engineering and materials science. This course develops data science approaches, including their foundational mathematical and statistical basis, and applies these methods to data sets of limited size and precision. Methods for regression and clustering will be developed and applied, with an emphasis on validation and error quantification. Techniques that will be developed include linear and nonlinear regression, clustering and logistic regression, dimensionality reduction, unsupervised learning, and artificial neural networks. These methods will be applied to a range of engineering problems, including conducting polymers, stretchable conductors, organic synthesis, and quality control in manufacturing.*

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|---|---|---|
| 0101 | Po-Yen Chen<br>TuTh 2:00pm - 3:15pm | Seats (Total: 25)<br>AJC 2119 |

**CHBE468** **Research**

(Perm req)

*Investigation of a research project under the direction of a faculty member. Comprehensive reports are required.*

**Contact department for information to register for this course.**

**CHBE469** **Special Projects**

(Perm req)

*Special project under the direction of a faculty member. Comprehensive reports are required.*

**Contact department for information to register for this course.**

**CHBE472** **Control of Air Pollution Sources**

(Perm req)

*Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department. Jointly offered with: CHBE672. Credit only granted for: CHBE472, CHBE672 or ENCH672.*

*Sources and effects of air pollutants, regulatory trends, atmospheric dispersion models, fundamentals of two-phase flow as applied to air pollution and air pollution control systems, design of systems for control of gases and particulate matter.*

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|---|---|---|
| 0101 | Akua Asa-Awuku<br>TuTh 11:00am - 12:15pm | Seats (Total: 25)<br>AJC 2119 |

**CHBE473** **Electrochemical Energy Engineering**

(Perm req)

*Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department. Jointly offered with: CHBE673. Credit only granted for: CHBE473 or CHBE673.*

*The lecture will start from the basic electrochemical thermodynamics and kinetics, with emphasis on electrochemical techniques, fundamental principle and performance of batteries, and supercapacitors.*

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|---|---|---|
| 0101 | Paul Albertus<br>TuTh 2:00pm - 3:15pm | Seats (Total: 24)<br>JMP 2217 |

**CHBE474** **Biopharmaceutical Process Development and Manufacturing**

(Perm req)

*Prerequisite: BIOE120; and permission of instructor. Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department. Jointly offered with: CHBE674. Credit only granted for: CHBE474, BIOE489T, ENCH648D or CHBE674.*

*Covers the fundamental steps involved in process development and manufacturing of biopharmaceuticals. An overview of different classes of biopharmaceuticals as well as manufacturing requirements for clinical development and regulatory approval will be provided. In depth coverage of manufacturing steps including cell culture, purification and formulation as well as drug product manufacturing, analysis and stability will be covered. Scientific literature will be used to highlight current challenges and novel solutions in each step of the manufacturing process. Scale up considerations, GMP requirements and process economics will also be introduced.*

| | | |
|---|---|---|
| 0101 | Deborah Goldberg<br>TuTh 9:30am - 10:45am | Seats (Total: 4)<br>AJC 2119 |

**CHBE490** **Polymer Science**

(Perm req)

*Credit only granted for: CHBE490, ENCH490, or ENMA495. Formerly: ENCH490.*

*The elements of the polymer chemistry and industrial polymerization, polymer structures and physics, thermodynamics of polymer solutions, polymer processing methods, and engineering applications of polymers.*

| | | |
|---|---|---|
| 0101 | Kyu Yong Choi<br>MW 10:00am - 11:15am | Seats (Total: 20)<br>CHE 2145 |

**CHBE493** **Chemical Processes in Beer Brewing**

(Perm req)

*Prerequisite: Minimum grade of C- in CHBE424 and CHBE440; and permission of instructor. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR- & Biomolecular Engineering department. Credit only granted for: CHBE493 or CHBE693. Additional information: Neither the students nor the instructor will be making or working with alcoholic beverages in the course.*

*Covers chemical engineering principles and chemical processes involved in the brewing and quality control of beer. Topics will include extraction and isomerization of bittering compounds from hops, enzymatic reactions involved in mashing beer, colloidal chemistry of haze formation, and microbiology of yeast and fermentation. Quantitative models will be applied to these processes based on fundamental chemical engineering principles from reaction kinetics, thermodynamics, transport phenomena, and colloid and interfacial science.*

| | | |
|---|---|---|
| 0101 | Taylor Woehl<br>M 2:30pm - 5:00pm | Seats (Total: 16)<br>AJC 2119 |

**CHBE494** **Sustainable Separations and Carbon Capture**

(Perm req)

*Prerequisite: Minimum grade of C- in CHBE424, CHBE426 and CHBE440; and permission of instructor. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; and must have permission of ENGR- & Biomolecular Engineering department. Credit only granted for: CHBE494 or CHBE694.*

*Provides a comprehensive overview of sustainable separations and carbon dioxide capture using synthetic membranes and sorbents.*

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|---|---|---|
| 0101 | Chen Zhang<br>MW 1:00pm - 2:15pm | Seats (Total: 20)<br>CHE 2136 |

**CHBE608** **Research in Chemical Engineering**

(Perm req)

*Students gain experience in research through lab rotations and experience presenting their findings.*

**Contact department for information to register for this course.**

**CHBE609** **Graduate Seminar**

(Perm req)

*Seminar in Chemical and Biomolecular Engineering*

| | | |
|---|---|---|
| 0101 | Peter Kofinas<br>F 11:00am - 12:30pm | Seats (Total: 35)<br>CHE 2108 |

**CHBE610** **Chemical Engineering Thermodynamics**

(Perm req)

*Prerequisite: CHBE301; and CHBE302. Or students who have taken courses with comparable content may contact the department. Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department. Credit only granted for: ENCH610 or CHBE610. Formerly: ENCH610.*

*Advanced application of the general thermodynamic methods to chemical engineering problems. First and second law consequences; estimation and correlation of thermodynamic properties; phase and chemical reaction equilibria.*

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|---|---|---|
| 0101 | Jeffery Klauda, Michael Kio<br>TuTh 3:30pm - 4:45pm | Seats (Total: 20)<br>CHE 2140 |

**CHBE620** **Methods of Engineering Analysis**

(Perm req)

*Prerequisite: MATH246 and CHBE250; or students who have taken courses with comparable content may contact the department. Credit only granted for: ENCH620 or CHBE620. Formerly: ENCH620.*

*Application of selected mathematical techniques to the analysis and solution of engineering problems; included are the applications of matrices, vectors, tensors, differential equations, integral transforms, and probability methods to such problems as unsteady heat transfer, transient phenomena in mass transfer operations, stagewise processes, chemical reactors, process control, and nuclear reactor physics.*

| | | |
|---|---|---|
| 0101 | Panagiotis Dimitrakopoulos | Seats (Total: 20) |
| | TuTh 5:00pm - 6:15pm | CHE 2140 |

**CHBE648** **Special Problems in Chemical Engineering**

(Perm req)

*Research project under the direction of a faculty member.*

**Contact department for information to register for this course.**

**CHBE652** **Introduction of Machine Learning in Chemical Engineering**

(Perm req)

*Recommended: Basic knowledge of chemical engineering, materials science, ordinary differential equations, and Python is desirable. Restriction: Permission of Department or Instructor. Jointly offered with: CHBE452. Credit only granted for: CHBE452 or CHBE652.*

*Introduction of data science and machine learning approaches to modern problems in chemical engineering and materials science. This course develops data science approaches, including their foundational mathematical and statistical basis, and applies these methods to data sets of limited size and precision. Methods for regression and clustering will be developed and applied, with an emphasis on validation and error quantification. Techniques that will be developed include linear and nonlinear regression, clustering and logistic regression, dimensionality reduction, unsupervised learning, and artificial neural networks. These methods will be applied to a range of engineering problems, including conducting polymers, stretchable conductors, organic synthesis, and quality control in manufacturing.*

| | | |
|---|---|---|
| 0101 | Po-Yen Chen | Seats (Total: 5) |
| | TuTh 2:00pm - 3:15pm | AJC 2119 |

**CHBE672** **Control of Air Pollution Sources**

(Perm req)

*Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department. Jointly offered with: CHBE472. Credit only granted for: CHBE472 or CHBE672.*

*Sources and effects of air pollutants, regulatory trends, atmospheric dispersion models, fundamentals of two-phase flow as applied to air pollution and air pollution control systems, design of systems for control of gases and particulate matter.*

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|---|---|---|
| 0101 | Akua Asa-Awuku | Seats (Total: 8) |
| | TuTh 11:00am - 12:15pm | AJC 2119 |

**CHBE673** **Electrochemical Energy Engineering**

(Perm req)

*Restriction: Permission of ENGR-Chemical & Biomolecular Engineering department. Jointly offered with: CHBE473. Credit only granted for: CHBE473 or CHBE673.*

*Basic electrochemical thermodynamics and kinetics, with emphasis on electrochemical techniques, fundamental principle and performance of batteries, and supercapacitors.*

| | | |
|---|---|---|
| 0101 | Paul Albertus<br>TuTh 2:00pm - 3:15pm | Seats (Total: 5)<br>JMP 2217 |
| | *2408: CHBE473/673 are shared classes that will be assigned to a DETS room in August.* | |
| ME01 | Paul Albertus<br>Contact instructor or department for details. | Seats (Total: 5) |

**CHBE690** **Polymer Reaction Engineering**

(Perm req)

*Prerequisite: ENCH640; or permission of instructor. Credit only granted for: ENCH781 or CHBE690. Formerly: ENCH781.*

*Advanced topics in polymerization kinetics, reactor design and analysis; addition and step-growth polymerization; homogeneous and heterogeneous polymerization; photopolymerization; reactor dynamics; optimal operation and control of industrial polymerization reactors.*

| | | |
|---|---|---|
| 0101 | Kyu Yong Choi<br>MW 10:00am - 11:15am | Seats (Total: 6)<br>CHE 2145 |

**CHBE693** **Chemical Processes in Beer Brewing**

(Perm req)

*Prerequisite: Minimum grade of C- in CHBE424 and CHBE440; and permission of instructor. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; and permission of ENGR- & Biomolecular Engineering department. Jointly offered with: CHBE493. Credit only granted for: CHBE493 or CHBE693. Additional information: Neither the students nor the instructor will be making or working with alcoholic beverages in the course.*

*Covers chemical engineering principles and chemical processes involved in the brewing and quality control of beer. Topics will include extraction and isomerization of bittering compounds from hops, enzymatic reactions involved in mashing beer, colloidal chemistry of haze formation, and microbiology of yeast and fermentation. Quantitative models will be applied to these processes based on fundamental chemical engineering principles from reaction kinetics, thermodynamics, transport phenomena, and colloid and interfacial science.*

| | | |
|---|---|---|
| 0101 | Taylor Woehl | Seats (Total: 5) |
| | M 2:30pm - 5:00pm | AJC 2119 |

**CHBE694** **Sustainable Separations and Carbon Capture**

(Perm req)

*Prerequisite: Minimum grade of C- in CHBE424, CHBE426 and CHBE440; and permission of instructor. Restriction: Must be in a major within the ENGR-Chemical & Biomolecular Engineering department; and must have permission of ENGR- & Biomolecular Engineering department. Jointly offered with: CHBE494. Credit only granted for: CHBE494 or CHBE694.*

*Provides a comprehensive overview of sustainable separations and carbon dioxide capture using synthetic membranes and sorbents.*

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|---|---|---|
| 0101 | Chen Zhang | Seats (Total: 5) |
| | MW 1:00pm - 2:15pm | CHE 2136 |

**CHBE799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**CHBE898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**CHBE899** **Doctoral Dissertation Research; Chemical Engineering**

(Perm req)

**Contact department for information to register for this course.**

# CHEM Chemistry Fall 2024

*The College of Computer, Mathematical and Natural Sciences enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course.*

**CHEM131** **Chemistry I - Fundamentals of General Chemistry**

*Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: CHEM132. Recommended: For Science majors. Credit only granted for: CHEM103, CHEM131, CHEM135, CHEM153 or CHEM146. Formerly: CHEM103.*

*An overview of the Periodic Table, inorganic substances, ionic and covalent bonding, bulk properties of materials, chemical equilibrium, and quantitative chemistry. CHEM131 is the first course in a four-semester sequence for students majoring in the sciences, other than Chemistry and Biochemistry majors.*

Students without the math pre-requisite will be administratively dropped.

| | | | |
|---|---|---|---|
| 1221 | Bonnie Dixon<br>MWF 10:00am - 10:50am<br>Tu 8:00am - 8:50am | Seats (Total: 35)<br>CHM 1407<br>PHY 2214 | <br><br>Discussion |
| 1222 | Bonnie Dixon<br>MWF 10:00am - 10:50am<br>Tu 9:30am - 10:20am | Seats (Total: 35)<br>CHM 1407<br>PHY 2214 | <br><br>Discussion |
| 1224 | Bonnie Dixon<br>MWF 10:00am - 10:50am<br>Tu 11:00am - 11:50am | Seats (Total: 35)<br>CHM 1407<br>PHY 2214 | <br><br>Discussion |
| 1241 | Bonnie Dixon<br>MWF 10:00am - 10:50am<br>Th 8:00am - 8:50am | Seats (Total: 35)<br>CHM 1407<br>PHY 2214 | <br><br>Discussion |
| 1242 | Bonnie Dixon<br>MWF 10:00am - 10:50am<br>Th 9:30am - 10:20am | Seats (Total: 35)<br>CHM 1407<br>PHY 2214 | <br><br>Discussion |
| 1243 | Bonnie Dixon<br>MWF 10:00am - 10:50am<br>Th 11:00am - 11:50am | Seats (Total: 35)<br>CHM 1407<br>PHY 2214 | <br><br>Discussion |
| 1325 | Amanda Schech<br>MWF 9:00am - 9:50am<br>Tu 12:30pm - 1:20pm | Seats (Total: 35)<br>PHY 1412<br>PHY 2214 | <br><br>Discussion |
| 1327 | Amanda Schech<br>MWF 9:00am - 9:50am<br>Tu 2:00pm - 2:50pm | Seats (Total: 35)<br>PHY 1412<br>PHY 2214 | <br><br>Discussion |
| 1328 | Amanda Schech<br>MWF 9:00am - 9:50am<br>Tu 3:30pm - 4:20pm | Seats (Total: 35)<br>PHY 1412<br>PHY 2214 | <br><br>Discussion |
| 1345 | Amanda Schech<br>MWF 9:00am - 9:50am<br>Th 12:30pm - 1:20pm | Seats (Total: 35)<br>PHY 1412<br>PHY 2214 | <br><br>Discussion |

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|---|---|---|---|
| 1347 | Amanda Schech<br>MWF 9:00am - 9:50am<br>Th 2:00pm - 2:50pm | Seats (Total: 35)<br>PHY 1412<br>PHY 2214 | Discussion |
| 1348 | Amanda Schech<br>MWF 9:00am - 9:50am<br>Th 3:30pm - 4:20pm | Seats (Total: 35)<br>PHY 1412<br>PHY 2214 | Discussion |
| 1425 | Lee Friedman<br>MWF 8:00am - 8:50am<br>Tu 12:30pm - 1:20pm | Seats (Total: 35)<br>CHM 1407<br>PHY 2122 | Discussion |
| 1426 | Lee Friedman<br>MWF 8:00am - 8:50am<br>Tu 2:00pm - 2:50pm | Seats (Total: 35)<br>CHM 1407<br>PHY 2122 | Discussion |
| 1427 | Lee Friedman<br>MWF 8:00am - 8:50am<br>Tu 3:30pm - 4:20pm | Seats (Total: 35)<br>CHM 1407<br>PHY 2122 | Discussion |
| 1445 | Lee Friedman<br>MWF 8:00am - 8:50am<br>Th 12:30pm - 1:20pm | Seats (Total: 35)<br>CHM 1407<br>PHY 2122 | Discussion |
| 1446 | Lee Friedman<br>MWF 8:00am - 8:50am<br>Th 2:00pm - 2:50pm | Seats (Total: 35)<br>CHM 1407<br>PHY 2122 | Discussion |
| 1447 | Lee Friedman<br>MWF 8:00am - 8:50am<br>Th 3:30pm - 4:20pm | Seats (Total: 35)<br>CHM 1407<br>PHY 2122 | Discussion |
| 1521 | Lenea Stocker<br>MWF 1:00pm - 1:50pm<br>Tu 8:00am - 8:50am | Seats (Total: 35)<br>CHM 1407<br>PHY 2106 | Discussion |
| 1522 | Lenea Stocker<br>MWF 1:00pm - 1:50pm<br>Tu 9:30am - 10:20am | Seats (Total: 35)<br>CHM 1407<br>PHY 2106 | Discussion |

| | | | |
|---|---|---|---|
| 1523 | Lenea Stocker<br>MWF 1:00pm - 1:50pm<br>Tu 11:00am - 11:50am | Seats (Total: 35)<br>CHM 1407<br>PHY 2106 | Discussion |
| 1541 | Lenea Stocker<br>MWF 1:00pm - 1:50pm<br>Th 8:00am - 8:50am | Seats (Total: 35)<br>CHM 1407<br>PHY 2106 | Discussion |
| 1542 | Lenea Stocker<br>MWF 1:00pm - 1:50pm<br>Th 9:30am - 10:20am | Seats (Total: 35)<br>CHM 1407<br>PHY 2106 | Discussion |
| 1543 | Lenea Stocker<br>MWF 1:00pm - 1:50pm<br>Th 12:30pm - 1:20pm | Seats (Total: 35)<br>CHM 1407<br>PHY 2106 | Discussion |
| FC01 | Bonnie Dixon<br>TuTh 4:30pm - 5:45pm<br>F 11:00am - 11:50am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 44)<br>CHM 1402<br>PHY 2214 | Discussion |
| FC02 | Bonnie Dixon<br>TuTh 4:30pm - 5:45pm<br>F 12:00pm - 12:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 44)<br>CHM 1402<br>PHY 2214 | Discussion |
| FC03 | Bonnie Dixon<br>TuTh 4:30pm - 5:45pm<br>F 3:00pm - 3:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 44)<br>CHM 1402<br>PHY 2214 | Discussion |
| SEF1 | Amanda Schech<br>M 6:00pm - 8:50pm<br>W 6:00pm - 6:50pm<br>*Must be in the Science in the Evening (SIE) program.* | Seats (Total: 40)<br>PHY 1204<br>ESJ 2309 | Discussion |

**CHEM132** **General Chemistry I Laboratory**

*Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: CHEM131. Credit only granted for: CHEM103, CHEM132, CHEM136, CHEM143, CHEM147 or CHEM177. Formerly: CHEM103.*

*Introduction to the quantification of chemical substances, including the concept of the mole and chemical stoichiometry. Additional work involves the synthesis of ionic substances and their qualitative characterization. Must be taken concurrently with CHEM131.*

Prerequisite: Must have math eligibility of MATH120 or higher. Laboratory sessions will begin after the first lecture. Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 1111 | Christiana Guest<br>M 9:00am - 11:50am | Seats (Total: 24)<br>ESJ 1312 | Lab |
| 1122 | Christiana Guest<br>M 12:00pm - 2:50pm | Seats (Total: 24)<br>ESJ 1316 | Lab |
| 1131 | Christiana Guest<br>M 3:00pm - 5:50pm | Seats (Total: 24)<br>ESJ 1312 | Lab |
| 1211 | Christiana Guest<br>Tu 9:30am - 12:20pm | Seats (Total: 24)<br>ESJ 1312 | Lab |
| 1221 | Christiana Guest<br>Tu 12:30pm - 3:20pm | Seats (Total: 24)<br>ESJ 1312 | Lab |
| 1222 | Christiana Guest<br>Tu 12:30pm - 3:20pm | Seats (Total: 24)<br>ESJ 1316 | Lab |
| 1223 | Christiana Guest<br>Tu 12:30pm - 3:20pm | Seats (Total: 24)<br>ESJ 2324 | Lab |
| 1232 | Christiana Guest<br>Tu 3:30pm - 6:20pm | Seats (Total: 24)<br>ESJ 1316 | Lab |
| 1233 | Christiana Guest<br>Tu 3:30pm - 6:20pm | Seats (Total: 24)<br>ESJ 2324 | Lab |
| 1321 | Christiana Guest<br>W 12:00pm - 2:50pm | Seats (Total: 24)<br>ESJ 1312 | Lab |
| 1331 | Christiana Guest<br>W 3:00pm - 5:50pm | Seats (Total: 24)<br>ESJ 1312 | Lab |
| 1332 | Christiana Guest<br>W 3:00pm - 5:50pm | Seats (Total: 24)<br>ESJ 1316 | Lab |

| | | | |
|---|---|---|---|
| 1333 | Christiana Guest<br>W 3:00pm - 5:50pm | Seats (Total: 24)<br>ESJ 2324 | Lab |
| 1411 | Christiana Guest<br>Th 9:30am - 12:20pm | Seats (Total: 24)<br>ESJ 1312 | Lab |
| 1412 | Christiana Guest<br>Th 9:30am - 12:20pm | Seats (Total: 24)<br>ESJ 1316 | Lab |
| 1422 | Christiana Guest<br>Th 12:30pm - 3:20pm | Seats (Total: 24)<br>ESJ 1316 | Lab |
| 1424 | Christiana Guest<br>Th 12:30pm - 3:20pm | Seats (Total: 24)<br>ESJ 1330 | Lab |
| 1432 | Christiana Guest<br>Th 3:30pm - 6:20pm | Seats (Total: 24)<br>ESJ 1316 | Lab |
| 1434 | Christiana Guest<br>Th 3:30pm - 6:20pm | Seats (Total: 24)<br>ESJ 1330 | Lab |
| 1531 | Christiana Guest<br>F 3:00pm - 5:50pm | Seats (Total: 24)<br>ESJ 1312 | Lab |
| 1532 | Christiana Guest<br>F 3:00pm - 5:50pm | Seats (Total: 24)<br>ESJ 1316 | Lab |
| FC11 | Christiana Guest<br>F 9:00am - 11:50am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>ESJ 1316 | Lab |
| FC12 | Christiana Guest<br>F 9:00am - 11:50am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>ESJ 2324 | Lab |
| FC21 | Christiana Guest<br>F 12:00pm - 2:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>ESJ 1316 | Lab |

| | | | |
|---|---|---|---|
| FC22 | Christiana Guest<br>F 12:00pm - 2:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>ESJ 2324 | Lab |
| FC33 | Christiana Guest<br>F 3:00pm - 5:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>ESJ 1330 | Lab |
| SEF1 | Christiana Guest<br>W 7:00pm - 9:50pm<br>*Must be in the Science in the Evening (SIE) program.* | Seats (Total: 24)<br>ESJ 1330 | Lab |

**CHEM132C** **General Chemistry I Laboratory**

*Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: CHEM131. Credit only granted for: CHEM103, CHEM132, CHEM136, CHEM143, CHEM147 or CHEM177. Formerly: CHEM103.*

*Introduction to the quantification of chemical substances, including the concept of the mole and chemical stoichiometry. Additional work involves the synthesis of ionic substances and their qualitative characterization. Must be taken concurrently with CHEM131.*

Prerequisite: Must have math eligibility of MATH120 or higher. Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 1121 | Christiana Guest<br>M 12:00pm - 2:50pm | Seats (Total: 24)<br>ESJ 1312 | Lab |
| 1132 | Christiana Guest<br>M 3:00pm - 5:50pm | Seats (Total: 24)<br>ESJ 1316 | Lab |
| 1133 | Christiana Guest<br>M 3:00pm - 5:50pm | Seats (Total: 24)<br>ESJ 2324 | Lab |
| 1213 | Christiana Guest<br>Tu 9:30am - 12:20pm | Seats (Total: 24)<br>ESJ 2324 | Lab |
| 1231 | Christiana Guest<br>Tu 3:30pm - 6:20pm | Seats (Total: 24)<br>ESJ 1312 | Lab |
| 1323 | Christiana Guest<br>W 12:00pm - 2:50pm | Seats (Total: 24)<br>ESJ 2324 | Lab |

| | | | |
|---|---|---|---|
| 1421 | Christiana Guest<br>Th 12:30pm - 3:20pm | Seats (Total: 24)<br>ESJ 1312 | Lab |
| 1433 | Christiana Guest<br>Th 3:30pm - 6:20pm<br>*This section is restricted to BioFire students.* | Seats (Total: 24)<br>ESJ 2324 | Lab |
| 1521 | Christiana Guest<br>F 12:00pm - 2:50pm<br>*This section is restricted to BioFire students.* | Seats (Total: 24)<br>ESJ 1312 | Lab |

**CHEM132S** **General Chemistry I Laboratory**

*Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: CHEM131. Credit only granted for: CHEM103, CHEM132, CHEM136, CHEM143, CHEM147 or CHEM177. Formerly: CHEM103.*

*Introduction to the quantification of chemical substances, including the concept of the mole and chemical stoichiometry. Additional work involves the synthesis of ionic substances and their qualitative characterization. Must be taken concurrently with CHEM131.*

Restricted to College Park - Life Sciences. Prerequisite: Must have math eligibility of MATH120 or higher. Laboratory sessions will begin after the first lecture. Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 1212 | Christiana Guest<br>Tu 9:30am - 12:20pm | Seats (Total: 24)<br>ESJ 1316 | Lab |
| 1322 | Christiana Guest<br>W 12:00pm - 2:50pm | Seats (Total: 24)<br>ESJ 1316 | Lab |
| 1431 | Christiana Guest<br>Th 3:30pm - 6:20pm | Seats (Total: 24)<br>ESJ 1312 | Lab |

**CHEM134** **Chemical Principles for Engineering**

*Prerequisite: Minimum grade of C- in CHEM131; or minimum grade of C- in CHEM146. Credit only granted for: CHEM 134 or CHEM 135.*

*Basic chemistry for engineering students. Introduction to organic structures and polymers, gas laws, liquids, solids, phase changes, chemical kinetics and electrochemistry.*

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|---|---|---|---|
| 0101 | Amanda Souna<br>Tu 8:00am - 8:50am | Seats (Total: 142)<br>PHY 1410 | |

**CHEM135** **General Chemistry for Engineers**

*Prerequisite: Must have math eligibility of MATH120 or higher. Credit only granted for: CHEM103, CHEM113, CHEM131, CHEM135, or CHEM146.*

*The nature and composition of matter, solutions, chemical reactions, equilibria, and electrochemistry, with applications to various fields of engineering.*

| | | | |
|---|---|---|---|
| 3125 | Elizabeth Griffith<br>TuTh 11:00am - 12:15pm<br>M 12:00pm - 12:50pm | Seats (Total: 45)<br>CHM 1407<br>PHY 2122 | Discussion |
| 3126 | Elizabeth Griffith<br>TuTh 11:00am - 12:15pm<br>M 1:00pm - 1:50pm | Seats (Total: 45)<br>CHM 1407<br>PHY 2122 | Discussion |
| 3127 | Elizabeth Griffith<br>TuTh 11:00am - 12:15pm<br>M 2:00pm - 2:50pm | Seats (Total: 45)<br>CHM 1407<br>PHY 2122 | Discussion |
| 3145 | Elizabeth Griffith<br>TuTh 11:00am - 12:15pm<br>W 12:00pm - 12:50pm | Seats (Total: 45)<br>CHM 1407<br>PHY 2122 | Discussion |
| 3147 | Elizabeth Griffith<br>TuTh 11:00am - 12:15pm<br>W 1:00pm - 1:50pm | Seats (Total: 45)<br>CHM 1407<br>PHY 2122 | Discussion |
| 3148 | Elizabeth Griffith<br>TuTh 11:00am - 12:15pm<br>W 2:00pm - 2:50pm | Seats (Total: 45)<br>CHM 1407<br>PHY 2122 | Discussion |
| 3225 | Alice Mignerey<br>MWF 2:00pm - 2:50pm<br>Tu 8:00am - 8:50am | Seats (Total: 43)<br>BRB 1101<br>PHY 2122 | Discussion |
| 3226 | Alice Mignerey<br>MWF 2:00pm - 2:50pm<br>Tu 9:30am - 10:20am | Seats (Total: 43)<br>BRB 1101<br>PHY 2122 | Discussion |
| 3227 | Alice Mignerey<br>MWF 2:00pm - 2:50pm<br>Tu 11:00am - 11:50am | Seats (Total: 43)<br>BRB 1101<br>PHY 2122 | Discussion |

| | | | |
|---|---|---|---|
| 3245 | Alice Mignerey<br>MWF 2:00pm - 2:50pm<br>Th 8:00am - 8:50am | Seats (Total: 43)<br>BRB 1101<br>PHY 2122 | Discussion |
| 3247 | Alice Mignerey<br>MWF 2:00pm - 2:50pm<br>Th 9:30am - 10:20am | Seats (Total: 43)<br>BRB 1101<br>PHY 2122 | Discussion |
| 3248 | Alice Mignerey<br>MWF 2:00pm - 2:50pm<br>Th 11:00am - 11:50am | Seats (Total: 43)<br>BRB 1101<br>PHY 2122 | Discussion |
| 3425 | Andrei Vedernikov<br>TuTh 12:30pm - 1:45pm<br>M 12:00pm - 12:50pm | Seats (Total: 43)<br>HJP 0226<br>PHY 2214 | Discussion |
| 3426 | Andrei Vedernikov<br>TuTh 12:30pm - 1:45pm<br>M 1:00pm - 1:50pm | Seats (Total: 43)<br>HJP 0226<br>PHY 2214 | Discussion |
| 3427 | Andrei Vedernikov<br>TuTh 12:30pm - 1:45pm<br>M 2:00pm - 2:50pm | Seats (Total: 43)<br>HJP 0226<br>PHY 2214 | Discussion |
| 3445 | Andrei Vedernikov<br>TuTh 12:30pm - 1:45pm<br>W 12:00pm - 12:50pm | Seats (Total: 43)<br>HJP 0226<br>PHY 2214 | Discussion |
| 3446 | Andrei Vedernikov<br>TuTh 12:30pm - 1:45pm<br>W 1:00pm - 1:50pm | Seats (Total: 43)<br>HJP 0226<br>PHY 2214 | Discussion |
| 3447 | Andrei Vedernikov<br>TuTh 12:30pm - 1:45pm<br>W 2:00pm - 2:50pm | Seats (Total: 43)<br>HJP 0226<br>PHY 2214 | Discussion |
| FC01 | Shane Collins<br>TuTh 4:30pm - 5:45pm<br>F 11:00am - 11:50am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 44)<br>CHM 1407<br>PHY 2122 | Discussion |

| | | | |
|---|---|---|---|
| FC02 | Shane Collins<br>TuTh 4:30pm - 5:45pm<br>F 12:00pm - 12:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 44)<br>CHM 1407<br>PHY 2122 | Discussion |
| FC03 | Shane Collins<br>TuTh 4:30pm - 5:45pm<br>F 1:00pm - 1:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 44)<br>CHM 1407<br>PHY 2122 | Discussion |

**CHEM136** **General Chemistry Laboratory for Engineers**

*Prerequisite: Must have completed or be concurrently enrolled in CHEM135 and must have math eligibility of MATH120 or higher. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.*

*A laboratory course for engineering majors intending to take CHEM231 and CHEM232.*

Prerequisite: Must have math eligibility of MATH120 or higher. Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 1125 | Natalia White<br>M 12:00pm - 2:50pm | Seats (Total: 24)<br>ESJ 1330 | Lab |
| 1135 | Natalia White<br>Tu 3:30pm - 6:20pm | Seats (Total: 24)<br>ESJ 1330 | Lab |
| 1215 | Natalia White<br>Tu 9:30am - 12:20pm | Seats (Total: 24)<br>ESJ 1330 | Lab |
| 1225 | Natalia White<br>Tu 12:30pm - 3:20pm | Seats (Total: 24)<br>ESJ 1330 | Lab |

**CHEM146** **Principles of General Chemistry**

*Prerequisite: Must have math eligibility of MATH140 or higher. Corequisite: CHEM177. Restriction: Must be in one of the following programs (Chemistry; Biochemistry). Credit only granted for: CHEM103, CHEM131, CHEM135, CHEM143, or CHEM146. Formerly: CHEM143.*

*An overview of the Periodic Table, inorganic substances, ionic and covalent bonding, bulk properties of materials, chemical equilibrium, and quantitative chemistry. CHEM146 is the first course in a four-semester sequence for Chemistry and Biochemistry majors.*

| | | | |
|---|---|---|---|
| 0032 | Mercedes Taylor<br>MWF 9:00am - 9:50am<br>Tu 9:30am - 10:20am | Seats (Total: 30)<br>CHE 2110<br>CHM 1228 | <br><br>Discussion |
| 0033 | Mercedes Taylor<br>MWF 9:00am - 9:50am<br>Th 9:30am - 10:20am | Seats (Total: 30)<br>CHE 2110<br>CHM 1228 | <br><br>Discussion |

**CHEM177** **Introduction to Laboratory Practices and Research in the Chemical Sciences**

*Prerequisite: Must have math eligibility of MATH120 or higher. Corequisite: CHEM146, CHEM131, or CHEM135. Restriction: Must be in a major within CMNS-Chemistry & Biochemistry department; or permission of CMNS-Chemistry & Biochemistry department. Credit only granted for: CHEM132, CHEM136, CHEM147, or CHEM177.*

*First semester laboratory course required for CHEM and BCHM majors. Introduction to laboratory techniques, including safety practices, scientific ethics, and presentation of current research topics.*

Prerequisite: Must have math eligibility of MATH120 or higher. Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 1131 | Elizabeth Griffith<br>F 3:00pm - 3:50pm<br>M 3:00pm - 5:50pm | Seats (Total: 18)<br>ESJ 1202<br>ESJ 0312 | <br><br>Lab |
| 1211 | Elizabeth Griffith<br>F 3:00pm - 3:50pm<br>Tu 9:30am - 12:20pm | Seats (Total: 18)<br>ESJ 1202<br>ESJ 0312 | <br><br>Lab |
| 1231 | Elizabeth Griffith<br>F 3:00pm - 3:50pm<br>Tu 3:30pm - 6:20pm | Seats (Total: 18)<br>ESJ 1202<br>ESJ 0312 | <br><br>Lab |
| 1331 | Elizabeth Griffith<br>F 3:00pm - 3:50pm<br>W 3:00pm - 5:50pm | Seats (Total: 18)<br>ESJ 1202<br>ESJ 0312 | <br><br>Lab |
| 1411 | Elizabeth Griffith<br>F 3:00pm - 3:50pm<br>Th 9:30am - 12:20pm | Seats (Total: 18)<br>ESJ 1202<br>ESJ 0312 | <br><br>Lab |
| 1431 | Elizabeth Griffith<br>F 3:00pm - 3:50pm<br>Th 3:30pm - 6:20pm | Seats (Total: 18)<br>ESJ 1202<br>ESJ 0312 | <br><br>Lab |

**CHEM231** **Organic Chemistry I**

*Prerequisite: CHEM131, CHEM135, or CHEM146; and (CHEM132, CHEM136, CHEM147, or CHEM177); and a grade of C- or better in the prerequisites is required of College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM232. Credit only granted for: CHEM104, CHEM231, CHEM233 or CHEM237. Formerly: CHEM233.*

*The chemistry of carbon: aliphatic compounds, aromatic compounds, stereochemistry, arenes, halides, alcohols, esters and spectroscopy.*

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|---|---|---|---|
| 5125 | Daniel Falvey<br>MWF 9:00am - 9:50am<br>Tu 12:30pm - 1:20pm | Seats (Total: 34)<br>CHM 1407<br>PHY 2208 | Discussion |
| 5127 | Daniel Falvey<br>MWF 9:00am - 9:50am<br>Tu 2:00pm - 2:50pm | Seats (Total: 34)<br>CHM 1407<br>PHY 2208 | Discussion |
| 5128 | Daniel Falvey<br>MWF 9:00am - 9:50am<br>Tu 3:30pm - 4:20pm | Seats (Total: 34)<br>CHM 1407<br>PHY 2208 | Discussion |
| 5145 | Daniel Falvey<br>MWF 9:00am - 9:50am<br>Th 12:30pm - 1:20pm | Seats (Total: 34)<br>CHM 1407<br>PHY 2208 | Discussion |
| 5147 | Daniel Falvey<br>MWF 9:00am - 9:50am<br>Th 2:00pm - 2:50pm | Seats (Total: 34)<br>CHM 1407<br>PHY 2208 | Discussion |
| 5148 | Daniel Falvey<br>MWF 9:00am - 9:50am<br>Th 3:30pm - 4:20pm | Seats (Total: 34)<br>CHM 1407<br>PHY 2208 | Discussion |
| 5215 | Lenea Stocker<br>MWF 12:00pm - 12:50pm<br>Tu 12:30pm - 1:20pm | Seats (Total: 34)<br>CHM 1407<br>CHM 1228 | Discussion |
| 5216 | Lenea Stocker<br>MWF 12:00pm - 12:50pm<br>Tu 2:00pm - 2:50pm | Seats (Total: 34)<br>CHM 1407<br>CHM 1228 | Discussion |

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|---|---|---|---|
| 5217 | Lenea Stocker<br>MWF 12:00pm - 12:50pm<br>Tu 3:30pm - 4:20pm | Seats (Total: 34)<br>CHM 1407<br>CHM 1228 | Discussion |
| 5235 | Lenea Stocker<br>MWF 12:00pm - 12:50pm<br>Th 12:30pm - 1:20pm | Seats (Total: 34)<br>CHM 1407<br>CHM 1228 | Discussion |
| 5236 | Lenea Stocker<br>MWF 12:00pm - 12:50pm<br>Th 2:00pm - 2:50pm | Seats (Total: 34)<br>CHM 1407<br>CHM 1228 | Discussion |
| 5237 | Lenea Stocker<br>MWF 12:00pm - 12:50pm<br>Th 3:30pm - 4:20pm | Seats (Total: 34)<br>CHM 1407<br>CHM 1228 | Discussion |
| 5315 | Monique Koppel<br>TuTh 2:00pm - 3:15pm<br>M 12:00pm - 12:50pm | Seats (Total: 34)<br>CHM 1407<br>CHM 1224 | Discussion |
| 5316 | Monique Koppel<br>TuTh 2:00pm - 3:15pm<br>M 1:00pm - 1:50pm | Seats (Total: 34)<br>CHM 1407<br>CHM 1224 | Discussion |
| 5317 | Monique Koppel<br>TuTh 2:00pm - 3:15pm<br>M 2:00pm - 2:50pm | Seats (Total: 34)<br>CHM 1407<br>CHM 1224 | Discussion |
| 5335 | Monique Koppel<br>TuTh 2:00pm - 3:15pm<br>W 12:00pm - 12:50pm | Seats (Total: 34)<br>CHM 1407<br>CHM 1224 | Discussion |
| 5336 | Monique Koppel<br>TuTh 2:00pm - 3:15pm<br>W 1:00pm - 1:50pm | Seats (Total: 34)<br>CHM 1407<br>CHM 1224 | Discussion |
| 5337 | Monique Koppel<br>TuTh 2:00pm - 3:15pm<br>W 2:00pm - 2:50pm | Seats (Total: 34)<br>CHM 1407<br>CHM 1224 | Discussion |

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|---|---|---|---|
| 5421 | Sonia Hirschauer<br>MWF 2:00pm - 2:50pm<br>Tu 8:00am - 8:50am | Seats (Total: 34)<br>CHM 1407<br>CHM 1224 | <br><br>Discussion |
| 5422 | Sonia Hirschauer<br>MWF 2:00pm - 2:50pm<br>Tu 9:30am - 10:20am | Seats (Total: 34)<br>CHM 1407<br>CHM 1224 | <br><br>Discussion |
| 5423 | Sonia Hirschauer<br>MWF 2:00pm - 2:50pm<br>Tu 11:00am - 11:50am | Seats (Total: 34)<br>CHM 1407<br>CHM 1224 | <br><br>Discussion |
| 5441 | Sonia Hirschauer<br>MWF 2:00pm - 2:50pm<br>Th 8:00am - 8:50am | Seats (Total: 34)<br>CHM 1407<br>CHM 1224 | <br><br>Discussion |
| 5442 | Sonia Hirschauer<br>MWF 2:00pm - 2:50pm<br>Th 9:30am - 10:20am | Seats (Total: 34)<br>CHM 1407<br>CHM 1224 | <br><br>Discussion |
| 5443 | Sonia Hirschauer<br>MWF 2:00pm - 2:50pm<br>Th 12:30pm - 1:20pm | Seats (Total: 34)<br>CHM 1407<br>CHM 1224 | <br><br>Discussion |
| SEF1 | Monique Koppel<br>M 6:00pm - 8:50pm<br>W 6:00pm - 6:50pm<br>*Must be in the Science in the Evening (SIE) program.* | Seats (Total: 36)<br>PHY 2208<br>PHY 2208 | <br><br>Discussion |

**CHEM232** **Organic Chemistry Laboratory I**

*Prerequisite: CHEM131 and CHEM132; or (CHEM135 and CHEM136); or (CHEM146 and CHEM147). And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM231. Credit only granted for: CHEM104, CHEM231, CHEM233 or CHEM237. Formerly: CHEM233.*

*Provides experience in developing some basic laboratory techniques, recrystallization, distillation, extraction, chromatography.*

Laboratory sessions will begin after the first lecture of CHEM 231. Students must pay a $40.00 laboratory materials fee.

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|---|---|---|---|
| 5121 | Monique Koppel<br>M 12:00pm - 2:50pm | Seats (Total: 18)<br>CHM 1346 | <br>Lab |

| | | | |
|---|---|---|---|
| 5122 | Monique Koppel<br>M 12:00pm - 2:50pm | Seats (Total: 18)<br>CHM 1356 | Lab |
| 5131 | Monique Koppel<br>M 3:00pm - 5:50pm | Seats (Total: 18)<br>CHM 1346 | Lab |
| 5132 | Monique Koppel<br>M 3:00pm - 5:50pm | Seats (Total: 18)<br>CHM 1356 | Lab |
| 5133 | Monique Koppel<br>M 3:00pm - 5:50pm | Seats (Total: 18)<br>CHM 1360 | Lab |
| 5141 | Monique Koppel<br>M 6:00pm - 8:50pm | Seats (Total: 18)<br>CHM 1346 | Lab |
| 5142 | Monique Koppel<br>M 6:00pm - 8:50pm | Seats (Total: 18)<br>CHM 1356 | Lab |
| 5143 | Monique Koppel<br>M 6:00pm - 8:50pm | Seats (Total: 18)<br>CHM 1360 | Lab |
| 5221 | Monique Koppel<br>Tu 12:30pm - 3:20pm | Seats (Total: 18)<br>CHM 1346 | Lab |
| 5222 | Monique Koppel<br>Tu 12:30pm - 3:20pm | Seats (Total: 18)<br>CHM 1356 | Lab |
| 5223 | Monique Koppel<br>Tu 12:30pm - 3:20pm | Seats (Total: 18)<br>CHM 1360 | Lab |
| 5231 | Monique Koppel<br>Tu 3:30pm - 6:20pm | Seats (Total: 18)<br>CHM 1346 | Lab |
| 5232 | Monique Koppel<br>Tu 3:30pm - 6:20pm | Seats (Total: 18)<br>CHM 1356 | Lab |
| 5233 | Monique Koppel<br>Tu 3:30pm - 6:20pm | Seats (Total: 18)<br>CHM 1360 | Lab |
| 5241 | Monique Koppel<br>Tu 6:30pm - 9:20pm | Seats (Total: 18)<br>CHM 1346 | Lab |

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|---|---|---|---|
| 5242 | Monique Koppel<br>Tu 6:30pm - 9:20pm | Seats (Total: 18)<br>CHM 1356 | Lab |
| 5243 | Monique Koppel<br>Tu 6:30pm - 9:20pm | Seats (Total: 18)<br>CHM 1360 | Lab |
| 5321 | Monique Koppel<br>W 12:00pm - 2:50pm | Seats (Total: 18)<br>CHM 1346 | Lab |
| 5322 | Monique Koppel<br>W 12:00pm - 2:50pm | Seats (Total: 18)<br>CHM 1356 | Lab |
| 5323 | Monique Koppel<br>W 12:00pm - 2:50pm | Seats (Total: 18)<br>CHM 1360 | Lab |
| 5331 | Monique Koppel<br>W 3:00pm - 5:50pm | Seats (Total: 18)<br>CHM 1346 | Lab |
| 5332 | Monique Koppel<br>W 3:00pm - 5:50pm | Seats (Total: 18)<br>CHM 1356 | Lab |
| 5333 | Monique Koppel<br>W 3:00pm - 5:50pm | Seats (Total: 18)<br>CHM 1360 | Lab |
| 5341 | Monique Koppel<br>W 6:00pm - 8:50pm | Seats (Total: 18)<br>CHM 1346 | Lab |
| 5343 | Monique Koppel<br>W 6:00pm - 8:50pm | Seats (Total: 18)<br>CHM 1360 | Lab |
| 5421 | Monique Koppel<br>Th 12:30pm - 3:20pm | Seats (Total: 18)<br>CHM 1346 | Lab |
| 5422 | Monique Koppel<br>Th 12:30pm - 3:20pm | Seats (Total: 18)<br>CHM 1356 | Lab |
| 5423 | Monique Koppel<br>Th 12:30pm - 3:20pm | Seats (Total: 18)<br>CHM 1360 | Lab |
| 5431 | Monique Koppel<br>Th 3:30pm - 6:20pm | Seats (Total: 18)<br>CHM 1346 | Lab |

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|---|---|---|---|
| 5432 | Monique Koppel<br>Th 3:30pm - 6:20pm | Seats (Total: 18)<br>CHM 1356 | Lab |
| 5433 | Monique Koppel<br>Th 3:30pm - 6:20pm | Seats (Total: 18)<br>CHM 1360 | Lab |
| 5441 | Monique Koppel<br>Th 6:30pm - 9:20pm | Seats (Total: 18)<br>CHM 1346 | Lab |
| 5442 | Monique Koppel<br>Th 6:30pm - 9:20pm | Seats (Total: 18)<br>CHM 1356 | Lab |
| 5443 | Monique Koppel<br>Th 6:30pm - 9:20pm | Seats (Total: 18)<br>CHM 1360 | Lab |
| 5521 | Monique Koppel<br>F 12:00pm - 2:50pm | Seats (Total: 18)<br>CHM 1346 | Lab |
| 5522 | Monique Koppel<br>F 12:00pm - 2:50pm | Seats (Total: 18)<br>CHM 1356 | Lab |
| 5523 | Monique Koppel<br>F 12:00pm - 2:50pm | Seats (Total: 18)<br>CHM 1360 | Lab |
| 5531 | Monique Koppel<br>F 3:00pm - 5:50pm | Seats (Total: 18)<br>CHM 1346 | Lab |
| 5532 | Monique Koppel<br>F 3:00pm - 5:50pm | Seats (Total: 18)<br>CHM 1356 | Lab |
| 5533 | Monique Koppel<br>F 3:00pm - 5:50pm | Seats (Total: 18)<br>CHM 1360 | Lab |
| SEF1 | Monique Koppel<br>W 7:00pm - 9:50pm<br>*Must be in the Science in the Evening (SIE) program.* | Seats (Total: 18)<br>CHM 1356 | Lab |

**CHEM241** **Organic Chemistry II**

*Prerequisite: CHEM231 and CHEM232; or CHEM237. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Credit only granted for: CHEM241, CHEM243 or CHEM247. Formerly: CHEM243.*

*A continuation of CHEM231 with emphasis on molecular structure; substitution reactions; carbonium ions; aromaticity; synthetic processes; macromolecules.*

| | | | |
|---|---|---|---|
| 6115 | Jeffery Davis<br>TuTh 8:00am - 9:15am<br>M 12:00pm - 12:50pm | Seats (Total: 33)<br>CHM 1407<br>CHM 1228 | Discussion |
| 6116 | Jeffery Davis<br>TuTh 8:00am - 9:15am<br>M 1:00pm - 1:50pm | Seats (Total: 33)<br>CHM 1407<br>CHM 1228 | Discussion |
| 6117 | Jeffery Davis<br>TuTh 8:00am - 9:15am<br>M 2:00pm - 2:50pm | Seats (Total: 33)<br>CHM 1407<br>CHM 1228 | Discussion |
| 6135 | Jeffery Davis<br>TuTh 8:00am - 9:15am<br>W 12:00pm - 12:50pm | Seats (Total: 33)<br>CHM 1407<br>CHM 1228 | Discussion |
| 6136 | Jeffery Davis<br>TuTh 8:00am - 9:15am<br>W 1:00pm - 1:50pm | Seats (Total: 33)<br>CHM 1407<br>CHM 1228 | Discussion |
| 6137 | Jeffery Davis<br>TuTh 8:00am - 9:15am<br>W 2:00pm - 2:50pm | Seats (Total: 33)<br>CHM 1407<br>CHM 1228 | Discussion |
| 6212 | Lyle Isaacs<br>TuTh 9:30am - 10:45am<br>M 9:00am - 9:50am | Seats (Total: 33)<br>CHM 1407<br>CHM 1228 | Discussion |
| 6213 | Lyle Isaacs<br>TuTh 9:30am - 10:45am<br>M 10:00am - 10:50am | Seats (Total: 33)<br>CHM 1407<br>CHM 1228 | Discussion |
| 6214 | Lyle Isaacs<br>TuTh 9:30am - 10:45am<br>M 11:00am - 11:50am | Seats (Total: 33)<br>CHM 1407<br>CHM 1228 | Discussion |
| 6232 | Lyle Isaacs<br>TuTh 9:30am - 10:45am<br>W 9:00am - 9:50am | Seats (Total: 33)<br>CHM 1407<br>CHM 1228 | Discussion |

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|---|---|---|---|
| 6233 | Lyle Isaacs<br>TuTh 9:30am - 10:45am<br>W 10:00am - 10:50am | Seats (Total: 33)<br>CHM 1407<br>CHM 1228 | Discussion |
| 6234 | Lyle Isaacs<br>TuTh 9:30am - 10:45am<br>W 11:00am - 11:50am | Seats (Total: 33)<br>CHM 1407<br>CHM 1228 | Discussion |
| 6415 | Jeffery Davis<br>TuTh 12:30pm - 1:45pm<br>M 12:00pm - 12:50pm | Seats (Total: 33)<br>CHM 1407<br>PHY 2213 | Discussion |
| 6416 | Jeffery Davis<br>TuTh 12:30pm - 1:45pm<br>M 1:00pm - 1:50pm | Seats (Total: 33)<br>CHM 1407<br>PHY 2213 | Discussion |
| 6417 | Jeffery Davis<br>TuTh 12:30pm - 1:45pm<br>M 2:00pm - 2:50pm | Seats (Total: 33)<br>CHM 1407<br>PHY 2213 | Discussion |
| 6435 | Jeffery Davis<br>TuTh 12:30pm - 1:45pm<br>W 12:00pm - 12:50pm | Seats (Total: 33)<br>CHM 1407<br>PHY 2213 | Discussion |
| 6436 | Jeffery Davis<br>TuTh 12:30pm - 1:45pm<br>W 1:00pm - 1:50pm | Seats (Total: 33)<br>CHM 1407<br>PHY 2213 | Discussion |
| 6437 | Jeffery Davis<br>TuTh 12:30pm - 1:45pm<br>W 2:00pm - 2:50pm | Seats (Total: 33)<br>CHM 1407<br>PHY 2213 | Discussion |
| SEF1 | Howard Fribush<br>M 6:00pm - 8:50pm<br>W 6:00pm - 6:50pm<br>*Must be in the Science in the Evening (SIE) program.* | Seats (Total: 30)<br>CHM 1224<br>CHM 1224 | Discussion |

**CHEM242** **Organic Chemistry Laboratory II**

*Prerequisite: CHEM231 and CHEM232; or CHEM237. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM241. Credit only granted for: CHEM243 or CHEM247. Formerly: CHEM243.*

*Synthetic organic chemistry through functional group manipulation, introduction to instrumentation essential to analysis and structure elucidation.*

Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 6121 | Sonia Hirschauer<br>M 12:00pm - 2:50pm | Seats (Total: 18)<br>CHM 1326 | Lab |
| 6122 | Sonia Hirschauer<br>M 12:00pm - 2:50pm | Seats (Total: 18)<br>CHM 1330 | Lab |
| 6131 | Sonia Hirschauer<br>M 3:00pm - 5:50pm | Seats (Total: 18)<br>CHM 1326 | Lab |
| 6132 | Sonia Hirschauer<br>M 3:00pm - 5:50pm | Seats (Total: 18)<br>CHM 1330 | Lab |
| 6141 | Sonia Hirschauer<br>M 6:00pm - 8:50pm | Seats (Total: 18)<br>CHM 1326 | Lab |
| 6142 | Sonia Hirschauer<br>M 6:00pm - 8:50pm | Seats (Total: 18)<br>CHM 1330 | Lab |
| 6221 | Sonia Hirschauer<br>Tu 12:30pm - 3:20pm | Seats (Total: 18)<br>CHM 1326 | Lab |
| 6222 | Sonia Hirschauer<br>Tu 12:30pm - 3:20pm | Seats (Total: 18)<br>CHM 1330 | Lab |
| 6231 | Sonia Hirschauer<br>Tu 3:30pm - 6:20pm | Seats (Total: 18)<br>CHM 1326 | Lab |
| 6232 | Sonia Hirschauer<br>Tu 3:30pm - 6:20pm | Seats (Total: 18)<br>CHM 1330 | Lab |
| 6241 | Sonia Hirschauer<br>Tu 6:30pm - 9:20pm | Seats (Total: 18)<br>CHM 1326 | Lab |
| 6242 | Sonia Hirschauer<br>Tu 6:30pm - 9:20pm | Seats (Total: 18)<br>CHM 1330 | Lab |

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|---|---|---|---|
| 6321 | Sonia Hirschauer<br>W 12:00pm - 2:50pm | Seats (Total: 18)<br>CHM 1326 | Lab |
| 6322 | Sonia Hirschauer<br>W 12:00pm - 2:50pm | Seats (Total: 18)<br>CHM 1330 | Lab |
| 6331 | Sonia Hirschauer<br>W 3:00pm - 5:50pm | Seats (Total: 18)<br>CHM 1326 | Lab |
| 6332 | Sonia Hirschauer<br>W 3:00pm - 5:50pm | Seats (Total: 14)<br>CHM 1330 | Lab |
| 6333 | Sonia Hirschauer<br>W 3:00pm - 5:50pm | Seats (Total: 18)<br>CHM 1342 | Lab |
| 6341 | Sonia Hirschauer<br>W 6:00pm - 8:50pm | Seats (Total: 18)<br>CHM 1326 | Lab |
| 6343 | Sonia Hirschauer<br>W 6:00pm - 8:50pm | Seats (Total: 18)<br>CHM 1342 | Lab |
| 6421 | Sonia Hirschauer<br>Th 12:30pm - 3:20pm | Seats (Total: 18)<br>CHM 1326 | Lab |
| 6422 | Sonia Hirschauer<br>Th 12:30pm - 3:20pm | Seats (Total: 18)<br>CHM 1330 | Lab |
| 6431 | Sonia Hirschauer<br>Th 3:30pm - 6:20pm | Seats (Total: 18)<br>CHM 1326 | Lab |
| 6432 | Sonia Hirschauer<br>Th 3:30pm - 6:20pm | Seats (Total: 18)<br>CHM 1330 | Lab |
| 6433 | Sonia Hirschauer<br>Th 3:30pm - 6:20pm | Seats (Total: 18)<br>CHM 1342 | Lab |
| 6441 | Sonia Hirschauer<br>Th 6:30pm - 9:20pm | Seats (Total: 18)<br>CHM 1326 | Lab |
| 6442 | Sonia Hirschauer<br>Th 6:30pm - 9:20pm | Seats (Total: 18)<br>CHM 1330 | Lab |

| | | | |
|---|---|---|---|
| 6443 | Sonia Hirschauer<br>Th 6:30pm - 9:20pm | Seats (Total: 18)<br>CHM 1342 | <br>Lab |
| 6521 | Sonia Hirschauer<br>F 12:00pm - 2:50pm | Seats (Total: 18)<br>CHM 1326 | <br>Lab |
| 6522 | Sonia Hirschauer<br>F 12:00pm - 2:50pm | Seats (Total: 18)<br>CHM 1330 | <br>Lab |
| 6531 | Sonia Hirschauer<br>F 3:00pm - 5:50pm | Seats (Total: 18)<br>CHM 1326 | <br>Lab |
| 6532 | Sonia Hirschauer<br>F 3:00pm - 5:50pm | Seats (Total: 18)<br>CHM 1330 | <br>Lab |
| 6533 | Sonia Hirschauer<br>F 3:00pm - 5:50pm | Seats (Total: 18)<br>CHM 1342 | <br>Lab |
| SEF1 | Sonia Hirschauer<br>W 7:00pm - 9:50pm<br>*Must be in the Science in the Evening (SIE) program.* | Seats (Total: 18)<br>CHM 1330 | <br>Lab |

**CHEM247** **Principles of Organic Chemistry II**

*Prerequisite: Minimum grade of C- in CHEM237; or permission of CMNS-Chemistry & Biochemistry department. Restriction: Must be in one of the following programs (Chemistry; Biochemistry) ; or must be an honors student. Credit only granted for: CHEM243 or CHEM247.*

*A continuation of CHEM237 with emphasis on molecular structure, substitution reactions; carbonium ions; aromaticity; synthetic processes; macromolecules.*

Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 6113 | Xiaodong Shi<br>MWF 10:00am - 10:50am<br>M 3:00pm - 5:50pm<br>Tu 8:00am - 8:50am | Seats (Total: 18)<br>CSI 3117<br>CHM 1342<br>PHY 2208 | <br><br>Lab<br>Discussion |
| 6123 | Xiaodong Shi<br>MWF 10:00am - 10:50am<br>M 6:00pm - 8:50pm<br>Tu 8:00am - 8:50am | Seats (Total: 18)<br>CSI 3117<br>CHM 1342<br>PHY 2208 | <br><br>Lab<br>Discussion |

| | | | |
|---|---|---|---|
| 6224 | Xiaodong Shi<br>MWF 10:00am - 10:50am<br>Tu 3:30pm - 6:20pm<br>Tu 9:30am - 10:20am | Seats (Total: 18)<br>CSI 3117<br>CHM 1342<br>PHY 2208 | <br><br>Lab<br>Discussion |
| 6323 | Xiaodong Shi<br>MWF 10:00am - 10:50am<br>Tu 12:30pm - 3:20pm<br>Tu 9:30am - 10:20am | Seats (Total: 18)<br>CSI 3117<br>CHM 1342<br>PHY 2208 | <br><br>Lab<br>Discussion |

**CHEM271** **General Chemistry and Energetics**

*Prerequisite: CHEM241 and CHEM242; or CHEM247. And a grade of C- or better in the prerequisites for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM272. Credit only granted for: CHEM113, CHEM153, CHEM271 or CHEM276. Formerly: CHEM113.*

*An introduction to the physical aspects of chemistry; chemical kinetics, thermodynamics and electrochemistry in the context of current chemistry research.*

| | | | |
|---|---|---|---|
| 2222 | Efrain Rodriguez<br>MW 11:00am - 11:50am<br>Tu 8:00am - 8:50am | Seats (Total: 24)<br>CHM 1407<br>PHY 2211 | <br><br>Discussion |
| 2225 | Efrain Rodriguez<br>MW 11:00am - 11:50am<br>Tu 9:30am - 10:20am | Seats (Total: 24)<br>CHM 1407<br>PHY 2211 | <br><br>Discussion |
| 2227 | Efrain Rodriguez<br>MW 11:00am - 11:50am<br>Tu 11:00am - 11:50am | Seats (Total: 24)<br>CHM 1407<br>PHY 2211 | <br><br>Discussion |
| 2242 | Efrain Rodriguez<br>MW 11:00am - 11:50am<br>Th 8:00am - 8:50am | Seats (Total: 24)<br>CHM 1407<br>PHY 2211 | <br><br>Discussion |
| 2245 | Efrain Rodriguez<br>MW 11:00am - 11:50am<br>Th 9:30am - 10:20am | Seats (Total: 24)<br>CHM 1407<br>PHY 2211 | <br><br>Discussion |
| 2247 | Efrain Rodriguez<br>MW 11:00am - 11:50am<br>Th 12:30pm - 1:20pm | Seats (Total: 24)<br>CHM 1407<br>PHY 2211 | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 2326 | YuHuang Wang<br>MW 3:00pm - 3:50pm<br>Tu 12:30pm - 1:20pm | Seats (Total: 24)<br>CHM 1407<br>PHY 2124 | Discussion |
| 2327 | YuHuang Wang<br>MW 3:00pm - 3:50pm<br>Tu 2:00pm - 2:50pm | Seats (Total: 24)<br>CHM 1407<br>PHY 2124 | Discussion |
| 2328 | YuHuang Wang<br>MW 3:00pm - 3:50pm<br>Tu 3:30pm - 4:20pm | Seats (Total: 24)<br>CHM 1407<br>PHY 2124 | Discussion |
| 2346 | YuHuang Wang<br>MW 3:00pm - 3:50pm<br>Th 12:30pm - 1:20pm | Seats (Total: 24)<br>CHM 1407<br>PHY 2124 | Discussion |
| 2347 | YuHuang Wang<br>MW 3:00pm - 3:50pm<br>Th 2:00pm - 2:50pm | Seats (Total: 24)<br>CHM 1407<br>PHY 2124 | Discussion |
| 2348 | YuHuang Wang<br>MW 3:00pm - 3:50pm<br>Th 3:30pm - 4:20pm | Seats (Total: 24)<br>CHM 1407<br>PHY 2124 | Discussion |
| 2439 | Natalia White<br>M 6:00pm - 7:50pm<br>W 6:00pm - 6:50pm | Seats (Total: 12)<br>CHM 1228<br>ESJ B0322 | Discussion |
| SEF1 | Natalia White<br>M 6:00pm - 7:50pm<br>W 6:00pm - 6:50pm<br>*Must be in the Science in the Evening (SIE) program.* | Seats (Total: 10)<br>CHM 1228<br>ESJ B0322 | Discussion |

**CHEM272** **General Bioanalytical Chemistry Laboratory**

*Prerequisite: CHEM241 and CHEM242; or CHEM247. And a grade of C- or better in the prerequisites is required for College of Computer, Mathematical, and Natural Sciences majors and recommended for all students. Corequisite: CHEM271. Credit only granted for: CHEM227, CHEM272 or CHEM277.*

*An introduction to analytical chemistry with an emphasis on bio-analytical instrumentation and techniques.*

Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 8122 | Amanda Schech<br>F 11:00am - 11:50am<br>M 12:00pm - 2:50pm | Seats (Total: 24)<br>CHM 1407<br>ESJ 2316 | <br><br>Lab |
| 8132 | Amanda Schech<br>F 11:00am - 11:50am<br>M 3:00pm - 5:50pm | Seats (Total: 24)<br>CHM 1407<br>ESJ 2316 | <br><br>Lab |
| 8222 | Amanda Schech<br>F 11:00am - 11:50am<br>Tu 12:30pm - 3:20pm | Seats (Total: 24)<br>CHM 1407<br>ESJ 2316 | <br><br>Lab |
| 8231 | Amanda Schech<br>F 11:00am - 11:50am<br>Tu 3:30pm - 6:20pm | Seats (Total: 24)<br>CHM 1407<br>ESJ 2312 | <br><br>Lab |
| 8321 | Amanda Schech<br>F 11:00am - 11:50am<br>W 12:00pm - 2:50pm | Seats (Total: 24)<br>CHM 1407<br>ESJ 2312 | <br><br>Lab |
| 8331 | Amanda Schech<br>F 11:00am - 11:50am<br>W 3:00pm - 5:50pm | Seats (Total: 24)<br>CHM 1407<br>ESJ 2312 | <br><br>Lab |
| 8341 | Amanda Schech<br>F 11:00am - 11:50am<br>W 7:00pm - 9:50pm | Seats (Total: 12)<br>CHM 1407<br>ESJ 2312 | <br><br>Lab |
| 8421 | Amanda Schech<br>F 11:00am - 11:50am<br>Th 12:30pm - 3:20pm | Seats (Total: 24)<br>CHM 1407<br>ESJ 2312 | <br><br>Lab |
| 8431 | Amanda Schech<br>F 11:00am - 11:50am<br>Th 3:30pm - 6:20pm | Seats (Total: 24)<br>CHM 1407<br>ESJ 2312 | <br><br>Lab |
| 9121 | Amanda Schech<br>F 3:00pm - 3:50pm<br>M 12:00pm - 2:50pm | Seats (Total: 24)<br>CHM 1407<br>ESJ 2312 | <br><br>Lab |

| | | | |
|---|---|---|---|
| 9131 | Amanda Schech<br>F 3:00pm - 3:50pm<br>M 3:00pm - 5:50pm | Seats (Total: 24)<br>CHM 1407<br>ESJ 2312 | <br><br>Lab |
| 9221 | Amanda Schech<br>F 3:00pm - 3:50pm<br>Tu 12:30pm - 3:20pm | Seats (Total: 24)<br>CHM 1407<br>ESJ 2312 | <br><br>Lab |
| 9232 | Amanda Schech<br>F 3:00pm - 3:50pm<br>Tu 3:30pm - 6:20pm | Seats (Total: 24)<br>CHM 1407<br>ESJ 2316 | <br><br>Lab |
| 9322 | Amanda Schech<br>F 3:00pm - 3:50pm<br>W 12:00pm - 2:50pm | Seats (Total: 24)<br>CHM 1407<br>ESJ 2316 | <br><br>Lab |
| 9422 | Amanda Schech<br>F 3:00pm - 3:50pm<br>Th 12:30pm - 3:20pm | Seats (Total: 24)<br>CHM 1407<br>ESJ 2316 | <br><br>Lab |
| 9432 | Amanda Schech<br>F 3:00pm - 3:50pm<br>Th 3:30pm - 6:20pm | Seats (Total: 24)<br>CHM 1407<br>ESJ 2316 | <br><br>Lab |
| SEF1 | Amanda Schech<br>M 8:00pm - 8:50pm<br>W 7:00pm - 9:50pm<br>*Must be in the Science in the Evening (SIE) program.* | Seats (Total: 10)<br>ONLINE<br>ESJ 2312 | <br><br>Lab |

**CHEM277** **Fundamentals of Analytical and Bioanalytical Chemistry Laboratory**

*Prerequisite: Minimum grade of C- in CHEM241 and CHEM242; or minimum grade of C- in CHEM247. Corequisite: CHEM276. Restriction: Must be in one of the following programs (Chemistry; Biochemistry). Credit only granted for: CHEM153, CHEM227, CHEM272 or CHEM277.*

*Quantitative analysis, inorganic analytical chemistry, and an introduction to bio-analytical instrumentation and techniques.*

Students must pay a $40.00 lab materials fee.

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|---|---|---|---|
| 8111 | Neil Blough<br>F 11:00am - 11:50am<br>MW 12:00pm - 2:50pm | Seats (Total: 18)<br>CHM 2201<br>ESJ 0312 | <br><br>Lab |

| | | | |
|---|---|---|---|
| 8121 | Neil Blough | Seats (Total: 18) | |
| | F 11:00am - 11:50am<br>TuTh 12:30pm - 3:20pm | CHM 2201<br>ESJ 0312 | Lab |

**CHEM389A** **Pedagogy and Instruction in Chemistry; Chemical Demonstrations and Outreach**

(Perm req)

*Methodologies, theory and educational tools applicable to the field of undergraduate chemistry education. Examples covered will use content from introductory general and organic chemistry courses.*

Contact the Department or instructor for permission.

| | | |
|---|---|---|
| 0101 | Lenea Stocker | Seats (Total: 9) |
| | Contact instructor or department for details. | |

**CHEM398** **Special Projects**

(Perm req)

*Honors projects for undergraduate students.*

Limited to chemistry honors students. Consult with Dr. Montague-Smith.

**Contact department for information to register for this course.**

**CHEM399A** **Introduction to Chemical Research**

(Perm req)

*Basic (chemical) research conducted under the supervision of a faculty member.*

**Contact department for information to register for this course.**

**CHEM399B** **Introduction to Chemical Research**

(Perm req)

*Basic (chemical) research conducted under the supervision of a faculty member.*

**Contact department for information to register for this course.**

**CHEM399C** **Introduction to Chemical Research**

(Perm req)

*Basic (chemical) research conducted under the supervision of a faculty member.*

**Contact department for information to register for this course.**

**CHEM399X** **Introduction to Chemical Research; Chemistry Instruction**

(Perm req)

*Basic (chemical) research conducted under the supervision of a faculty member.*

| | | | |
|---|---|---|---|
| 0101 | Lee Friedman<br>Contact instructor or department for details. | Seats (Total: 8) | |

**CHEM403** **Radiochemistry**

*Prerequisite: Must have completed one year of college chemistry and one year of college physics.*

*Radioactive decay; introduction to properties of atomic nuclei; nuclear processes in cosmology; chemical, biomedical and environmental applications of radioactivity; nuclear processes as chemical tools; interaction of radiation with matter.*

| | | | |
|---|---|---|---|
| 0101 | Alice Mignerey<br>MWF 12:00pm - 12:50pm | Seats (Total: 40)<br>CHM 2201 | |

**CHEM425** **Instrumental Methods of Analysis**

*Prerequisite: CHEM272 and CHEM271; or (CHEM276 and CHEM277).*

*Modern instrumentation in analytical chemistry. Electronics, spectroscopy, chromatography and electrochemistry.*

Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 0101 | Peter Nemes<br>MW 10:00am - 10:50am<br>MW 12:00pm - 2:50pm | Seats (Total: 12)<br>CHM 1402<br>CHM 3228 | <br><br>Lab |
| 0102 | Peter Nemes<br>MW 10:00am - 10:50am<br>TuTh 12:30pm - 3:20pm | Seats (Total: 12)<br>CHM 1402<br>CHM 3228 | <br><br>Lab |
| 0104 | Peter Nemes<br>MW 10:00am - 10:50am<br>TuTh 9:30am - 12:20pm | Seats (Total: 12)<br>CHM 1402<br>CHM 3228 | <br><br>Lab |
| 0105 | Peter Nemes<br>MW 10:00am - 10:50am<br>MW 6:00pm - 8:50pm | Seats (Total: 12)<br>CHM 1402<br>CHM 3228 | <br><br>Lab |
| 0109 | Peter Nemes<br>MW 10:00am - 10:50am<br>TuTh 6:30pm - 9:20pm | Seats (Total: 12)<br>CHM 1402<br>CHM 3228 | <br><br>Lab |

**CHEM441** **Advanced Organic Chemistry**

*Prerequisite: Must have completed or be concurrently enrolled in CHEM480 or CHEM481; and 1 course with a minimum grade of C- from (CHEM241, CHEM247). Jointly offered with: CHEM641.*

*An advanced study of the compounds of carbon, with special emphasis on molecular orbital theory and organic reaction mechanisms.*

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|---|---|---|
| 0101 | Benjamin Boyle | Seats (Total: 35) |
| | MW 4:00pm - 5:15pm | CHM 2201 |

**CHEM460 Structure Determination Using Spectroscopic Methods**

*Prerequisite: Must have completed CHEM243; or CHEM247; or (CHEM241 and CHEM242). Formerly: CHEM660.*

*The use of infrared, ultraviolet-visible, proton and carbon-13 nuclear magnetic resonance and mass spectroscopy for structure determination in organic chemistry.*

| | | |
|---|---|---|
| 0101 | Myles Poulin | Seats (Total: 40) |
| | MWF 10:00am - 10:50am | CHM 2201 |

**CHEM480 Principles of Physical Chemistry**

*Prerequisite: (CHEM276 or CHEM271); and (CHEM277 or CHEM272); and (MATH140 or MATH136); and (PHYS260 and PHYS261) or PHYS132. Credit only granted for: CHEM480 or CHEM481; CHEM480, BCHM485 or CHEM482.*

*Covers elementary thermodynamics, principles of kinetics and catalysis and selected topics in molecular quantum mechanics, spectroscopy and statistical mechanics. Topics will emphasize core subjects along with applications to biosciences, materials science, environmental science and related areas.*

| | | |
|---|---|---|
| 0101 | Amy Mullin | Seats (Total: 20) |
| | MWF 1:00pm - 1:50pm | PLS 1162 |

**CHEM481 Physical Chemistry I**

*Prerequisite: Minimum grade of C- in CHEM135; or minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. And minimum grade of C- in MATH141. And minimum grade of C- in PHYS260 and PHYS261; or minimum grade of C- in PHYS141. Credit only granted for: CHEM481 or CHEM480.*

*Thermodynamics and kinetics of chemical and molecular systems. Topics may include internal energy, heat, work, enthalpy, entropy, free energy, and spontaneity as well as reaction order, differential rate laws, integrated rate laws, and rate laws for multi-step processes.*

| | | |
|---|---|---|
| 0101 | Christopher Jarzynski | Seats (Total: 116) |
| | MWF 9:00am - 9:50am | CHM 1402 |

**CHEM482 Physical Chemistry II**

*Prerequisite: Minimum grade of C- in CHEM135; or minimum grade of C- in CHEM271 and CHEM272; or minimum grade of C- in CHEM276 and CHEM277. And minimum grade of C- in MATH141. And minimum grade of C- in PHYS260 and PHYS261; or minimum grade of C- in PHYS141. Credit only granted for: CHEM482, BCHM485 or CHEM480.*

*Quantum mechanical nature of atoms and molecules. Topics may include model systems for electronic, vibrational, rotational and translational energies as well as connections to molecular spectroscopy and thermal distributions.*

| | | | |
|---|---|---|---|
| 0101 | Leah Dodson<br>MWF 9:00am - 9:50am | Seats (Total: 42)<br>PHY 2106 | |

**CHEM483** **Physical Chemistry Laboratory I**

*Prerequisite: Must have completed or be concurrently enrolled in CHEM481.*

*An introduction to the principles and application of quantitative techniques in physical chemical measurements. Experiments will be coordinated with topics in CHEM481.*

Students must pay a $40.00 lab materials fee.

| | | | |
|---|---|---|---|
| 0114 | Amanda Souna<br>Th 11:00am - 11:50am<br>Tu 9:30am - 12:20pm | Seats (Total: 18)<br>EGR 0108<br>CHM 3225 | Lab |
| 0124 | Amanda Souna<br>Th 11:00am - 11:50am<br>Tu 2:00pm - 4:50pm | Seats (Total: 18)<br>EGR 0108<br>CHM 3225 | Lab |
| 0144 | Amanda Souna<br>Th 11:00am - 11:50am<br>W 2:00pm - 4:50pm | Seats (Total: 18)<br>EGR 0108<br>CHM 3225 | Lab |

**CHEM484** **Physical Chemistry Laboratory II**

*Prerequisite: Must have completed or be concurrently enrolled in CHEM482.*

*Advanced quantitative techniques necessary in physical chemical measurements. Experiments will be coordinated with topics in CHEM 482.*

Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 0124 | Amanda Souna<br>Th 3:30pm - 4:20pm<br>W 3:00pm - 5:50pm | Seats (Total: 12)<br>CHM 2201<br>CHM 3221 | Lab |

| | | | |
|---|---|---|---|
| 0134 | Amanda Souna | Seats (Total: 12) | |
| | Th 3:30pm - 4:20pm | CHM 2201 | |
| | W 10:00am - 12:50pm | CHM 3221 | Lab |

**CHEM601** **Structure and Bonding of Molecules and Materials**

*Development of the tools necessary to use the knowledge of structure and bonding of molecules and solids in the practice of synthetic inorganic and materials chemistry. Several bonding models are covered, from the simple valence bond and ligand field models to a quantitative group theoretical treatment of molecular orbital theory and band structure descriptions of solids. Concepts of electron counting and oxidation state and ligand characteristics are revisited in terms of the more sophisticated bonding models. Finally, these models are used to analyze the reactivity, magnetic and spectroscopic properties of inorganic coordination compounds. Prior advanced inorganic and/or advanced quantum chemistry courses are not prerequisites.*

| | | |
|---|---|---|
| 0101 | Lawrence Sita | Seats (Total: 40) |
| | MWF 9:00am - 9:50am | CHM 2201 |

**CHEM608K** **Selected Topics in Inorganic Chemistry; Chemistry Teaching and Learning in Higher Education**

(Perm req)

*Topics of special interest and current importance.*

Cross-listed with BIOL608K, CBMG699K, and ENTM699K. Credit will be grant edfor only one of the following: BIOL608K, CBMG699K, CHEM608K, or ENTM699K.

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|---|---|---|
| 0101 | Gili Ad-Marbach | Seats (Total: 12) |
| | W 11:00am - 12:40pm | BPS 1208 |

**CHEM611** **Professional Skills for New Graduate Students**

*Restriction: Must be in one of the following programs (Chemistry (Master's); Biochemistry (Master's); Biochemistry (Doctoral); Chemistry (Doctoral)) ; and must be a new graduate student.*

*Covers a wide range of topics in professional development for new graduate students.*

| | | |
|---|---|---|
| 0101 | Xiaodong Shi | Seats (Total: 40) |
| | F 2:00pm - 3:15pm | CHM 1402 |

**CHEM624** **Electrical Methods of Quantitative Analysis**

*Prerequisite: CHEM482; or students who have taken courses with comparable content may contact the department.*

*The use of conductivity, potentiometry, polarography, voltammetry, amperometry, coulometry, and chronopotentiometry in quantitative analysis.*

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|---|---|---|
| 0101 | Sangbok Lee | Seats (Total: 25) |
| | TuTh 8:00am - 9:15am | CHM 2201 |

**CHEM640** **Problems in Organic Reaction Mechanisms**

*A tutorial type course dealing with the basic description of the fundamentals of writing organic reaction mechanisms.*

| | | |
|---|---|---|
| 0101 | Xiaodong Shi | Seats (Total: 25) |
| | F 11:00am - 11:50am | Location: TBA |

**CHEM641** **Organic Reaction Mechanisms**

*Jointly offered with CHEM441.*

| | | |
|---|---|---|
| 0101 | Benjamin Boyle | Seats (Total: 35) |
| | MW 4:00pm - 5:15pm | CHM 2201 |

**CHEM684** **Chemical Thermodynamics**

*Prerequisite: CHEM482; or students who have taken courses with comparable content may contact the department.*

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|---|---|---|
| 0101 | Zhiwei Li | Seats (Total: 27) |
| | TuTh 11:00am - 12:15pm | CHM 2201 |

**CHEM690** **Quantum Chemistry I**

| | | |
|---|---|---|
| 0101 | Hongzhou Ye | Seats (Total: 25) |
| | TuTh 9:30am - 10:45am | CHM 2201 |

**CHEM699** **Special Problems in Chemistry**

*Laboratory experience in a research environment.*

Open only to non-thesis Master's degree candidates.

**Contact department for information to register for this course.**

**CHEM799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**CHEM889A** **Seminar; Analytical, Nuclear and Environmental Chemistry**

| | | |
|---|---|---|
| 0101 | Alice Mignerey | Seats (Total: 15) |
| | Th 3:00pm - 4:15pm | CHM 1112 |

**CHEM889C** **Seminar; Inorganic Chemistry**

| | | |
|---|---|---|
| 0101 | Andrei Vedernikov | Seats (Total: 25) |
| | Th 11:00am - 12:15pm | CHM 1112 |

**CHEM889D** **Seminar; Organic Chemistry**

| | | |
|---|---|---|
| 0101 | Andrei Vedernikov | Seats (Total: 25) |
| | Th 11:00am - 12:15pm | CHM 1112 |

**CHEM889E** **Seminar; Physical Chemistry**

Cross-listed with CHEM898F and CHPH709A. Credit will be granted for one ofthe following: CHEM889E, CHEM889F, or CHPH709A.

| | | |
|---|---|---|
| 0101 | Leah Dodson | Seats (Total: 15) |
| | W 11:00am - 12:15pm | CHM 1112 |

**CHEM889F** **Seminar; Chemical Physics**

Cross-listed with CHEM898E and CHPH709A. Credit will be granted for one ofthe following: CHEM889E, CHEM889F, or CHPH709A.

| | | |
|---|---|---|
| 0101 | Leah Dodson | Seats (Total: 15) |
| | W 11:00am - 12:15pm | CHM 1112 |

**CHEM889M** **Seminar; Materials Chemistry**
**Contact department for information to register for this course.**

**CHEM898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**CHEM899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# CHIN Chinese Fall 2024

**CHIN101** **Intensive Elementary Chinese I**

(Perm req)

*Prerequisite: Must have attained appropriate World Language Placement Test (WLPT) score.*

*Introduction to speaking, reading, and writing Chinese with an emphasis on mastering the essentials of pronunciation, basic characters and structural patterns.*

| | | |
|---|---|---|
| 0101 | Jungjung Lee-Heitz, Mei Kong | Seats (Total: 15) |
| | MWF 10:00am - 10:50am | JMZ 1124 |
| | TuTh 9:30am - 10:45am | JMZ 1124 |

| | | |
|---|---|---|
| 0201 | Mei Kong, Jungjung Lee-Heitz<br>MWF 11:00am - 11:50am<br>TuTh 11:00am - 12:15pm | Seats (Total: 15)<br>JMZ 1124<br>JMZ 1124 |
| 0301 | Guiling Hu<br>MWF 1:00pm - 1:50pm<br>Class time/details on ELMs | Seats (Total: 15)<br>JMZ 1124<br>ONLINE |

**CHIN169A** **Special Topics in Study Abroad I; Elementary Chinese I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**CHIN169B** **Special Topics in Study Abroad I; Elementary Chinese II**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**CHIN201** **Intermediate Spoken Chinese I**

(Perm req)

*Prerequisite: CHIN102; or must have attained appropriate World Language Placement Test (WLPT) score. Corequisite: CHIN202. Additional information: Must be taken in conjunction with CHIN202.*

*Emphasis on development of conversational skills with vocabulary build-up and controlled conversation.*

| | | |
|---|---|---|
| 0101 | Mei Kong<br>MWF 12:00pm - 12:50pm | Seats (Total: 15)<br>JMZ 3122 |
| 0201 | Guiling Hu<br>MWF 2:00pm - 2:50pm | Seats (Total: 15)<br>JMZ 3122 |

**CHIN202** **Intermediate Written Chinese I**

(Perm req)

*Prerequisite: CHIN103; or must have attained appropriate World Language Placement Test (WLPT) score. Corequisite: CHIN201. Additional information: Must be taken in conjunction with CHIN201.*

*Reading and writing skills with emphasis on grammar and Chinese characters.*

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|---|---|---|
| 0101 | Jungjung Lee-Heitz<br>TuTh 12:30pm - 1:45pm | Seats (Total: 15)<br>JMZ 3122 |
| 0201 | Guiling Hu<br>Class time/details on ELMs | Seats (Total: 15)<br>ONLINE |

**CHIN203** **Intermediate Spoken Chinese II**

*Prerequisite: CHIN201; or students who have taken courses with comparable content may contact the department; or must have attained appropriate World Language Placement Test (WLPT) score. Corequisite: CHIN204. Additional information: Must be taken in conjunction with CHIN204.*

*Continuation of CHIN201.*

**Contact department for information to register for this course.**

**CHIN269B** **Special Topics in Study Abroad II; Chinese Business Issues and Practices**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**CHIN269I** **Special Topics in Study Abroad II; Intermediate Spoken Chinese I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**CHIN269P** **Special Topics in Study Abroad II; The China Phenomenon**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**CHIN269W** **Special Topics in Study Abroad II; Chinese Calligraphy II**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**CHIN301** **Advanced Chinese I**

(Perm req)

*Prerequisite: CHIN202; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.*

*Readings in expository and fictional writing with conversation and composition.*

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|---|---|---|
| 0101 | Yuli Wang<br>MWF 10:00am - 10:50am | Seats (Total: 15)<br>JMZ 1226 |
| 0201 | Yuli Wang<br>MWF 11:00am - 11:50am | Seats (Total: 15)<br>JMZ 3122 |

**CHIN307** **Linguistic Landscape of China**

*Prerequisite: Must have completed CHIN204 or above; or permission of Chinese Program Advisor.*

*Comprehensive introduction to Chinese and other major languages in the Sino-Tibetan, Altaic, Austroasiatic, and Austronesian families, all of which are spoken in China. Taught in English.*

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|---|---|---|
| 0101 | Minglang Zhou<br>TuTh 9:30am - 10:45am | Seats (Total: 25)<br>JMZ 2123 |

**CHIN313** **Chinese Poetry and Prose in Translation**

*Writing of the major poets, essayists, and historians from the 10th century B.C. to the 12th century A.D. No knowledge of Chinese is required.*

**Contact department for information to register for this course.**

**CHIN315** **Modern Chinese Literature in Translation**

*Major works of fiction and drama from 1920 to the present read in the context of social and literary change. Emphasis on western and traditional Chinese influences on the writers and their works. No knowledge of Chinese required.*

| | | |
|---|---|---|
| 0101 | Belinda Qian He | Seats (Total: 30) |
| | TuTh 2:00pm - 3:15pm | JMZ 0103 |

**CHIN331** **Chinese Calligraphy: Theory and Practice**

*Prerequisite: CHIN220; or permission of instructor.*

*History of the writing system; major scripts, modes, and styles. Intermediate brushwork and lectures on the culture. Characters for practice selected to correspond to lecture topics. Taught in English.*

| | | |
|---|---|---|
| 0101 | Yuli Wang | Seats (Total: 15) |
| | W 12:30pm - 3:00pm | EDU 1315 |

**CHIN369B** **Special Topics in Study Abroad III; Advanced Chinese I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**CHIN369C** **Special Topics in Study Abroad III; Advanced Chinese II**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**CHIN369D** **Special Topics in Study Abroad III; Advanced Chinese III**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**CHIN369E** **Special Topics in Study Abroad III; Advanced Chinese IV**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**CHIN386** **Experiential Learning**

(Perm req)

*Prerequisite: Must have learning proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor. Restriction: Junior standing or higher.*

**Contact department for information to register for this course.**

**CHIN401** **Readings in Modern Chinese I**

(Perm req)

*Prerequisite: CHIN302; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.*

*Readings in history, politics, economics, sociology, and literature. Emphasis on wide-ranging, rapid reading, reinforced by conversations and compositions.*

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|---|---|---|
| 0101 | Mei Kong<br>MWF 2:00pm - 2:50pm | Seats (Total: 15)<br>JMZ 3205 |

**CHIN415** **Readings in Current Newspapers and Periodicals**

(Perm req)

*Prerequisite: CHIN402; or students who have taken courses with comparable content may contact the department. And must have taken a placement interview offered by the department for Non-majors.*

*Reading of periodical literature on selected topics with discussions and essays in Chinese.*

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|---|---|---|
| 0101 | Jungjung Lee-Heitz<br>TuTh 2:00pm - 3:15pm | Seats (Total: 15)<br>JMZ 3122 |

**CHIN418V** **Special Topics in Contemporary Chinese Fiction and Film; Chinese Machines, Global Media**

*Various approaches to the most recent textual productions of China and Taiwan. Taught in Chinese.*

Cross-listed with CINE429V. Credit only granted for CHIN418V or CINE429V. Explores the working of Chinese machines as both a local reality and a global media form: how machines - cameras, computers, robots, and more - function as technological artifacts, media practices, and social apparatuses in the Chinese-speaking world and beyond. Topics include WeChat, databases, sex cyborgs, virtual idols, pandemic tech, and AI systems. Introduces students to a wide array of films, animation, video games, digital ephemera, internet memes, and social media events from PRC China, Hong Kong, Taiwan, and across the Asia Pacific.

| | | |
|---|---|---|
| 0101 | Belinda Qian He<br>TuTh 11:00am - 12:15pm | Seats (Total: 20)<br>JMZ 0118 |

**CHIN441** **Traditional Chinese Fiction**

*Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department.*

*Major works of fiction from the 4th century tales of the marvelous through the 19th century Qing novel. Readings are in classical Chinese and English. Designed for students with advanced language skills. Taught in English.*

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|---|---|---|
| 0101 | Andrew Schonebaum | Seats (Total: 18) |
| | TuTh 12:30pm - 1:45pm | JMZ 1117 |

**CHIN499** **Directed Study in Chinese**

(Perm req)

*Readings in Chinese under faculty supervision.*

**Contact department for information to register for this course.**

# CHPH Chemical Physics Fall 2024

**CHPH618** **Special Projects in Chemical Physics**

(Perm req)

*Independent reading and study covering chemical physics subject areas not available in other courses.*

**Contact department for information to register for this course.**

**CHPH633** **Advanced Characterization of Soft Matter Materials**

(Perm req)

*Restriction: Permission of ENGR-Materials Science & Engineering department. Cross-listed with: ENMA633. Credit only granted for: ENMA633 or CHPH633.*

*This course is focused on both the theories and experimental works of studying structure and dynamics of soft matter materials using scattering techniques (light, x-ray and neutron scattering). These scattering techniques can probe the structure from a few Angstrom to micrometer and the dynamics from picosecond to second, are thus widely used to reveal the structure-performance relationship of different materials. The course discusses the physics principles of these techniques and explains the details of general theories and commonly used models in characterizing soft matter materials such as polymer, protein, colloidal, thin film, and gel systems.*

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|---|---|---|
| 0101 | Yun Liu | Seats (Total: 15) |
| | WF 1:25pm - 2:40pm | ONLINE |

**CHPH709A** **Seminar in Chemical Physics; Physical Chemistry**

*Current research and developments in chemical physics.*

Jointly offered with CHEM898E and CHEM898F. Credit will be granted for o ne ofthe following: CHEM889E, CHEM889F, or CHPH709A.

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|---|---|---|
| 0101 | Leah Dodson | Seats (Total: 15) |
| | W 11:00am - 12:15pm | CHM 1112 |

**CHPH709B** **Seminar in Chemical Physics; Statistical Physics**

*Current research and developments in chemical physics.*

Cross-listed with PHYS709.

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|---|---|---|
| 0101 | Pratyush Tiwary<br>Tu 1:15pm - 2:30pm | Seats (Total: 30)<br>IPT 1116 |

**CHPH709L** **Seminar in Chemical Physics; Biophysics**

*Current research and developments in chemical physics.*

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| 0101 | Arpita Upadhyaya<br>M 4:00pm - 5:30pm | Seats (Total: 20)<br>IPT 1116 |

**CHPH718I** **Special Topics in Chemical Physics; Chemical Physics Rotation**

(Perm req)

*A discussion of current research problems in chemical physics.*

For Chemical Physics Students only.

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|---|---|---|
| 0101 | Wendell Hill<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE |
| 0201 | Wendell Hill<br>Contact instructor or department for details. | Seats (Total: 10) |

**CHPH799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**CHPH898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**CHPH899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# CHSE Counseling, Higher Education, and Special Education — Fall 2024

**CHSE200** **College Success and Life Planning - Managing College and Career Life through Goal Development and Planning**

(Perm req)

*Restriction: Must be in the TerpsEXCEED Program; and permission from TerpsEXCEED Director.*
*Additional information: Priority enrollment for students in the TerpsEXCEED program.*

*The overarching goal of this course is to guide new students affiliated with the TerpsEXCEED program in navigating the initial stages of college, career and campus life management. The course is organized around Academic and Career Habits, Cultural Know-How, Balance of Multiple Roles, and Self-Direction in order to address (a) skills and interest assessments, (b) goal setting, (c) organizational and independent living skills development, (d) travel and transportation orientation to navigate and access campus and College Park, (e) financial planning, (f) safety, (g) social activity access, and (h) basic scheduling and time management. TerpsEXCEED students will be matched with typical student peer supports for a more normalized college experience.*

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|---|---|---|
| 0101 | Amy D'Agati, Meredith Gramlich<br>TuTh 9:30am - 10:45am | Seats (Total: 10)<br>EDU 2102 |

**CHSE205** **Disability: From Stigma and Sideshow to Mainstream and Main Street**

*Credit only granted for: EDSP289I or CHSE205. Formerly: EDSP289I.*

*Explores the cultural, historical, educational, and medical roots of difference among human beings and examines the impact of cultural and technological changes on individuals traditionally identified as disabled. The course is designed to develop a broad understanding of the concept of "disability" and the emerging technologies that shape contemporary understanding of this phenomenon and the lives of those considered disabled.*

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|---|---|---|
| 0101 | Katryna Andrusik<br>TuTh 9:30am - 10:45am | Seats (Total: 50)<br>TWS 0320 |

**CHSE228C** **Common Ground Deliberative Dialogues; Civic Engagement for Social Good**

*Students will explore current societal issues through an intergroup, deliberative dialogue model. The course includes foundations of dialogue, identity reflection, peer leadership, engagement across differences, and dialogic skill-building.*

Students will explore current societal issues through an intergroup, deliberative dialogue model. The course includes foundations of dialogue, identity reflection, peer leadership, engagement across differences, and dialogic skill-building.

| | | |
|---|---|---|
| 0101 | Nikita Kimani<br>**Meets August 26, 2024 - October 15, 2024**<br>Tu 4:00pm - 6:00pm | Seats (Total: 20)<br><br>TYD 0102 |
| 0201 | Nikita Kimani<br>**Meets October 22, 2024 - December 9, 2024**<br>W 4:00pm - 6:00pm | Seats (Total: 20)<br><br>SKN 1115 |

**CHSE228D** **Common Ground Deliberative Dialogues; Common Ground ResLife**

*Students will explore current societal issues through an intergroup, deliberative dialogue model. The course includes foundations of dialogue, identity reflection, peer leadership, engagement across differences, and dialogic skill-building.*

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|---|---|---|
| 0101 | Nikita Kimani<br>**Meets October 14, 2024 - December 9, 2024**<br>W 4:00pm - 6:00pm | Seats (Total: 20)<br><br>JMZ 1122 |

**CHSE230** **Career Exploration and Development**

(Perm req)

*Restriction: Must be in the TerpsEXCEED program; and permission from the College of Education Student Services office.*

*This course prepares TerpsEXCEED students for on-the-job internship experiences in future semesters by guiding them through career exploration, discovery, and skill development. Students will complete career assessments, develop resumes, practice interviews, engage employers, learn how to fill out applications, practice technical and soft skills to improve employability, and secure internship options for the next semester.*

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| 0101 | Stacie Brownrigg<br>TuTh 11:00am - 12:15pm | Seats (Total: 25)<br>KNI 1206 |

**CHSE389** **Independent Study**

(Perm req)

*Customized project based on an individual topic area within Counseling, Higher Education and Special Education*

**Contact department for information to register for this course.**

**CHSE489** **Internship - Terps Exceed**

(Perm req)

*Builds on students' individual career exploration process, which determines what types of internships students participate in. It is a fully experiential course that requires on-the-job experiences related to career interests and course of study; an additional semester can involve expansion of a position with new learning tasks or a new position. Students are graded on self-reflections, employer feedback, instructor observations and a final project demonstrating newly gained on-the-job knowledge and an updated career plan.*

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|---|---|---|
| 1901 | Amy D'Agati<br>Contact instructor or department for details. | Seats (Total: 15) |
| 3201 | Stacie Brownrigg<br>Contact instructor or department for details. | Seats (Total: 10) |

**CHSE498** **Independent Study**

(Perm req)

*In collaboration with the approved instructor, students will define the scope of a service or research-based project, create a plan and timeline (with goals and projected outcomes), and present a product that demonstrates outcomes. This could include doing a service project with a Center within CHSE or specific program that aligns with a career interest or passion.*

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|---|---|---|---|---|
| 1901 | Amy D'Agati<br>Contact instructor or department for details. | Seats (Total: 10) | | |
| 2401 | Meredith Gramlich<br>Contact instructor or department for details. | Seats (Total: 10) | | |

# CINE Cinema and Media Studies Fall 2024

**CINE245** **Film Form and Culture**

*Cross-listed with: ENGL245. Credit only granted for: ENGL245, CINE245 or FILM245. Formerly: FILM245.*

*Introduction to film as art form and how films create meaning. Basic film terminology; fundamental principles of film form, film narrative, and film history. Examination of film technique and style over past one hundred years. Social and economic functions of film within broader institutional, economic, and cultural contexts.*

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|---|---|---|---|---|
| 0101 | Oliver Gaycken<br>MW 12:00pm - 12:50pm<br>F 11:00am - 11:50am | Seats (Total: 22) | TWS 0320<br>ASY 3219 | Discussion |
| 0102 | Oliver Gaycken<br>MW 12:00pm - 12:50pm<br>F 10:00am - 10:50am | Seats (Total: 22) | TWS 0320<br>TWS 0214 | Discussion |
| 0103 | Oliver Gaycken<br>MW 12:00pm - 12:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 22) | TWS 0320<br>ASY 3221 | Discussion |
| 0104 | Oliver Gaycken<br>MW 12:00pm - 12:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 22) | TWS 0320<br>ASY 3221 | Discussion |

**CINE280** **Film Art in a Global Society**

*Cross-listed with: CMLT280. Credit only granted for: CINE280, FILM298D or CMLT280. Formerly: FILM298D.*

*Comparative study of a variety of film traditions from around the world, including cinema from Hollywood, Europe, Asia and developing countries, with a stress on different cultural contexts for film-making and viewing.*

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| 0101 | Ariana Nash<br>MWF 1:00pm - 1:50pm | Seats (Total: 30)<br>TWS 0234 |
| 0201 | Mehdy Sedaghat Payam<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>TWS 0236 |

**CINE283** **Iranian Cinema**

*Cross-listed with: PERS283. Credit only granted for: PERS283, CINE283 or FILM298B.*

*Introduction to Iranian cinema, society, and culture. Taught in English.*

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| 0101 | Marjan Moosavi<br>MW 3:30pm - 4:45pm | Seats (Total: 30)<br>JMZ 2206 |

**CINE298A** **Special Topics in International Film Studies; Masterpieces in French and Francophone Cinemas**

*Special topics in International Film.*

Crosslisted with FREN243. Credit only granted for CINE298A or FREN243 Since 1895, French and Francophone directors, producers, and critics have contributed to the development of film both as an art form and as a medium of communication. This course will present a large array of classic films directed by French directors who were internationally known in their times and have had a considerable influence on today's filmmakers in the US and abroad.

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| 0101 | Caroline Eades<br>MW 2:00pm - 3:15pm | Seats (Total: 20)<br>ESJ B0322 |

**CINE301** **Cinema History I: The Silent Era**

(Perm req)

*Prerequisite: ENGL245, CINE245, or FILM245; or permission of ARHU-College of Arts & Humanities. Credit only granted for: CINE301 or FILM301. Formerly: FILM301.*

*Examines the development of silent cinema from the 1890s to the early 1930s drawing on at least five distinct national traditions (French, German, Russian, British, and American). Introduces students to key cinematic conventions as they emerged around the world.*

Priority given to Cinema and Media Studies majors

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|---|---|---|
| 0101 | Elizabeth Papazian<br>MW 10:00am - 11:50am | Seats (Total: 30)<br>ESJ B0322 |

**CINE319C** **Special Topics in Documentary, Animation, Experimental Cinema, and Other Visual Media; Images of Revolt: Strike, Riot, Uprising**

*Examine the possibilities of non-narrative cinema, or cinema that is structured differently from the fiction feature film, as well as other media (television, digital imagery, and photography) that entertain a close relationship with cinema in terms of form, content, and audience. Content varies.*

Explores the relationship between images and politics by focusing on representations of three distinct forms of collective action (strike, riot, uprising) across various genres, geographic locations, and historical periods.

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|---|---|---|---|
| 0101 | Luka Arsenjuk, Mauro Resmini | Seats (Total: 40) | |
| | TuTh 2:00pm - 3:15pm | ASY 3203 | |

**CINE319K** **Special Topics in Documentary, Animation, Experimental Cinema, and Other Visual Media; The Disney Studio and the Animation Industry**

*Examine the possibilities of non-narrative cinema, or cinema that is structured differently from the fiction feature film, as well as other media (television, digital imagery, and photography) that entertain a close relationship with cinema in terms of form, content, and audience. Content varies.*

Cross-listed with ENGL329L. Credit granted for ENGL329L, CINE319K or FILM319K. Prerequisite: ENGL245, FILM245, CINE245, SLLC283, or FILM283; or permission of instructor. By examining films, tv shows, video games, and other media created using the brand names of two pivotal children's media figures - Walt Disney and Jim Henson - we will explore different ways that these media afterlives continue to shape the relationship between artist and audience - even in the artist's absence.

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| 0101 | Paul Cote | Seats (Total: 20) | |
| | MWF 12:00pm - 12:50pm | ASY 3219 | |

**CINE319M** **Special Topics in Documentary, Animation, Experimental Cinema, and Other Visual Media; Introduction to Filmmaking**

(Perm req)

*Examine the possibilities of non-narrative cinema, or cinema that is structured differently from the fiction feature film, as well as other media (television, digital imagery, and photography) that entertain a close relationship with cinema in terms of form, content, and audience. Content varies.*

Priority given to Cinema and Media Studies majors This practice-based course offers an introduction to the foundational skills, techniques, and principles of filmmaking. Prior film or video production experience is not necessary.

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| 0101 | Nathaniel Stevens | Seats (Total: 15) | |
| | W 12:00pm - 1:15pm | JMZ 1104 | |
| | W 1:15pm - 3:45pm | JMZ 1104 | Lab |

**CINE329A** **Special Topics in National/International Cinemas; Transnational Neorealism**

*Examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.*

Cross-listed with HIST328J. Credit only granted for HIST328J or CINE329A. Examining -- and trenchantly going beyond -- the allegedly Italian origins of neorealism, this course will use select examples from the global cinema of the second postwar to look at the transnational, cultural, and political history of this famous film style.

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| 0101 | Saverio Giovacchini | Seats (Total: 30) |
| | MW 12:00pm - 1:15pm | KEY 0103 |

**CINE329T** **Special Topics in National/International Cinemas; Sports in Film**

*Examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.*

Explores the global development of sports, cinema, and politics as intertwined during the 20th and 21st centuries. Examining works by pioneering directors such as Ken Burns, Leni Riefenstahl, Martin Scorsese, Steve James, Spike Lee, Oliver Stone, Gurinder Chadha, Jafar Panahi, and Asif Kapadia, the course focuses on the critical depictions of athletes, coaches, fans, and families across cinematic genres such as documentaries, biopics, drama, and comedy.

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| 0101 | Daniel Richter | Seats (Total: 20) |
| | Class time/details on ELMs | ONLINE |

**CINE334** **Soviet Film: Propaganda, Myth, Modernism**

*Cross-listed with: RUSS334. Credit only granted for: RUSS334, CINE334, or FILM334. Formerly: FILM334.*

*A Survey of Soviet film from the 1920s to 1991, focusing on important directors, genres, themes, and styles. Taught in English.*

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| 0101 | Elizabeth Papazian | Seats (Total: 25) |
| | MW 12:00pm - 1:50pm | ESJ B0322 |

**CINE337** **Contemporary Chinese Art and Film**

*Cross-listed with: ARTH392. Credit only granted for: ARTH392, FILM329L or CINE337. Formerly: FILM329L.*

*Contemporary Chinese art and film are arguably the most vibrant of all national arts at the turn of the millennium and have become the face - both figuratively and literally - of contemporary China, a complex society with historic overlays of Confucianism, Taoism, Buddhism, Communism, Post-socialism, and state capitalism. Students will consider a wide range of art forms (painting, photography, video, installation, web-based media, and film) in four broad themes (uses of the past; critiques of power; representations of race, gender, and sexuality; socially engaged art) and explore the complex intertwining of the political, historical, and aesthetic aspects in Chinese contemporary art and film, as well as the multiple contexts in which these artworks are created and circulated.*

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| 0101 | Jason Kuo<br>M 1:00pm - 3:30pm | Seats (Total: 25)<br>ASY 4213A |

**CINE359C** **Special Topics in Genres/Auteurs/Cinema Movements; Disaster Cinema**

*Examine narrative cinema from the perspective of content (themes, issues, structures) and style through the lens of genre, auteurship (a concept of authorship in film studies), and/or historical aesthetic movements that have been influential in the development of cinema as an art and film studies as a field. Content varies.*

Exploration of disaster films in Hollywood and global cinema during the past century. The course will examine disaster films, such as Godzilla, King Kong, and Contagion, as a form of cinema's critical encounter with war, colonialism, and scientific development.

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| 0101 | Daniel Richter<br>Tu 12:30pm - 1:45pm<br>Th 12:30pm - 1:45pm | Seats (Total: 20)<br>JMZ 2125<br>ONLINE |

**CINE359P** **Special Topics in Genres/Auteurs/Cinema Movements; The Films of Martin Scorsese**

*Examine narrative cinema from the perspective of content (themes, issues, structures) and style through the lens of genre, auteurship (a concept of authorship in film studies), and/or historical aesthetic movements that have been influential in the development of cinema as an art and film studies as a field. Content varies.*

Cross-listed with ENGL329P. Credit granted for ENGL329P or CINE359P. Prerequisite: ENGL245, FILM245, CINE245, SLLC283, or FILM283: or permission of instructor.

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| 0101 | Marianne Conroy<br>TuTh 12:30pm - 1:45pm | Seats (Total: 20)<br>ASY 3219 |

**CINE359Y** **Special Topics in Genres/Auteurs/Cinema Movements; Orson Welles in Film, Theater, Radio, Television, and Beyond**

*Examine narrative cinema from the perspective of content (themes, issues, structures) and style through the lens of genre, auteurship (a concept of authorship in film studies), and/or historical aesthetic movements that have been influential in the development of cinema as an art and film studies as a field. Content varies.*

Cross-listed with ENGL329O. Credit granted for ENGL329O or CINE359Y. Prerequisite: ENGL245, FILM245, CINE245, SLLC283, or FILM283: or permission of instructor. Actor, director, radio innovator, theater maverick, magician, talk-show guest, ad-pitchman, and unlikely social media icon, Orson Welles has been an icon across mediums for nearly a century. Using the heights and depths of Welles' career as our lens - from Citizen Kane to cantankerous commercial outtakes - this course will trace larger histories of 20th and 21st century media, criticism and theory.

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| 0101 | Paul Cote<br>MWF 1:00pm - 1:50pm | Seats (Total: 20)<br>ASY 3219 |

**CINE369V** **Special Topics in Film Theories; Authoritarianism in Cinema & Literature**

*Examines specific methodologies (structuralism, feminism, postcolonialism, etc.) for the critical analysis of film. The course will also consider the historical development of theoretical concepts. Content varies.*

A critical investigation of the way that cinema and literature represent, convey, and themselves develop ideas, especially concepts relating to social experience and political organization. In this presidential election year, we'll focus specifically on authoritarianism and its corollaries (occupation, political repression, social stratification) as themes and issues in cultural production, both as forms of resistance against and collaboration with regimes of authority.

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| 0101 | Eric Zakim | Seats (Total: 20) |
| | TuTh 2:00pm - 3:15pm | ESJ B0322 |

**CINE388** **Experiential Learning: Cinema and Media Studies**

*Connects students' theoretical understanding of film studies, as obtained through the classroom, to professional experience.*

**Contact department for information to register for this course.**

**CINE419V** **Special Topics in Documentary, Animation, Experimental Cinema, and Other Media; Videographic Essay in Theory and Practice**

(Perm req)

*Advanced studies in Documentary, Animation, Experimental Cinema, and Other Media. Examines the possibilities of non-narrative cinema, or cinema that is structured differently from the fiction feature film, as well as other media (television, digital imagery, and photography) that entertain a close relationship with cinema in terms of form, content, and audience. Content varies.*

Prerequisite: CINE301 or CINE302. Priority given to CINE majors Explores the history and theory of the essay as a distinct form, paying special attention to the role of the essay in the history of cinema. Two thirds of the course is practice-based and offers students a chance to experiment and produce their own videographic essays.

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| 0101 | Luka Arsenjuk | Seats (Total: 15) |
| | Th 3:30pm - 6:00pm | JMZ 1215 |

**CINE429N** **Special Topics in National/International Cinemas; New German Cinema**

*Courses in National/International Cinemas may examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.*

Cross-listed with GERS458C and GERS689N. Credit only granted for CINE429N, GERS458C, or GERS689N. This seminar explores the internationally successful new wave of filmmaking that flourished in West Germany from 1962-1982. Focusing on the New German Cinema as a movement and genre, we will examine how the works of major auteur directors developed new aesthetic forms to engage with the Nazi past, colonialism and migration, feminist and queer liberation, and left politics. Taught in English.

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| 0101 | Hester Baer | Seats (Total: 18) |
| | TuTh 3:30pm - 4:45pm | JMZ 3203 |

**CINE429V** **Special Topics in National/International Cinemas; Chinese Machines, Global Media**

*Courses in National/International Cinemas may examine one or more national cinematic traditions (including Hollywood cinema), or may look across traditions comparatively, for example at international and/or transnational phenomena. Content varies.*

Cross-listed with CHIN418V. Credit only granted for CHIN418V or CINE429V. Explores the working of Chinese machines as both a local reality and a global media form: how machines - cameras, computers, robots, and more - function as technological artifacts, media practices, and social apparatuses in the Chinese-speaking world and beyond. Topics include WeChat, databases, sex cyborgs, virtual idols, pandemic tech, and AI systems. Introduces students to a wide array of films, animation, video games, digital ephemera, internet memes, and social media events from PRC China, Hong Kong, Taiwan, and across the Asia Pacific.

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| 0101 | Belinda Qian He | Seats (Total: 20) |
| | TuTh 11:00am - 12:15pm | JMZ 0118 |

**CINE441** **Italian Cinema I: Neorealism**

*Cross-listed with: ITAL436. Credit only granted for: CINE441, FILM441 or ITAL436. Formerly: FILM441.*

*Explores representations of Italy in cinema with special focus on identity formation and the movement of Italian neorealism and post neorealism. Taught in English.*

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| 0101 | Mauro Resmini | Seats (Total: 25) |
| | TuTh 11:00am - 12:15pm | ESJ B0322 |

**CINE459Y** **Special Topics in Genres/Auteurs/Cinema Movements; Great Chinese Film Directors: Ang Lee to Zhang Yimou**

*Special topics in genres, auteurs, and cinema movements.*

Cross-listed with CINE459Y. Credit only granted for ARTH488Z or CINE459Y. Filmmaking is the most fascinating and fastest growing art form in China. Students will examine the films directed by some of the greatest Chinese directors such as Ang Lee, Hou Hsiao-hsien, Wong Kar-wai, and Zhang Yimou. The films will be studied in their artistic, historical, political, and social contexts.

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| 0101 | Jason Kuo | Seats (Total: 14) |
| | Th 2:00pm - 4:30pm | ASY 3217 |

**CINE469A** **Special Topics in Film Theories II; Experimental and Avant-Garde Cinema**

*Special topics in film theories.*

An exploration of the aesthetics and history of avant-garde and experimental film from the very origins of cinema, up through the 21st century, within the context of avant-garde art, music, and literature throughout cinema's history. Special focus on American experimental cinema of the mid-20th century, with specific attention to the relation of experimental film to issues of race, gender, sexuality, politics, and identity.

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|---|---|---|
| 0101 | Eric Zakim | Seats (Total: 20) |
| | TuTh 11:00am - 12:15pm | JMZ 2122 |

**CINE469M** **Special Topics in Film Theories II; Methods and Issues in Cinema and Media Studies**

(Perm req)

*Special topics in film theories.*

Cross-listed with ENGL759E and CMLT679B. Credit granted for ENGL759E, CMLT679B or CINE469M. Offers an introduction to ways of reading, writing about, and teaching cinema and media. The focus of discussion will range from methods of close analysis and basic concepts of film form, technique, and style; through industrial/critical categories of genre and authorship (studios,stars, directors); through aspects of the cinema as a social institution, psycho-sexual apparatus and cultural practice; to the relationship between filmic texts and the historical horizon of production and reception; to the historical and contemporary questions arising from a comparative media approach.

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|---|---|---|
| 0101 | Oliver Gaycken | Seats (Total: 15) |
| | W 3:30pm - 6:00pm | TWS 3252 |

**CINE499** **Directed Study in Cinema and Media Studies**

*Readings and Research in Film Studies under faculty supervison.*

**Contact department for information to register for this course.**

# CLAS Classics Fall 2024

**CLAS169M** **Special Topics in Study Abroad I; Myths and Legends**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**CLAS170** **Ancient Myths and Modern Lives**

*Cross-listed with: RELS170. Credit only granted for: CLAS170 or RELS170. Additional information: This course cannot be taken for language credit.*

*What are myths and why do we tell them? What powers do myths have? We will tackle these questions by looking at the enduring and fascinating myths from ancient Greece and Rome. In addition to studying how they shaped ancient societies, we will also look at their modern influence and reflect upon the power that myths still hold in our contemporary world. Taught in English.*

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|---|---|---|---|
| 0101 | Jorge Bravo<br>MW 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 21)<br>SKN 0200<br>SKN 1115 | Discussion |
| 0102 | Jorge Bravo<br>MW 11:00am - 11:50am<br>Th 9:30am - 10:20am | Seats (Total: 21)<br>SKN 0200<br>JMZ 2120 | Discussion |
| 0103 | Jorge Bravo<br>MW 11:00am - 11:50am<br>Th 11:00am - 11:50am | Seats (Total: 21)<br>SKN 0200<br>PLS 1117 | Discussion |
| 0104 | Jorge Bravo<br>MW 11:00am - 11:50am<br>Th 12:30pm - 1:20pm | Seats (Total: 21)<br>SKN 0200<br>PLS 1172 | Discussion |
| 0105 | Jorge Bravo<br>MW 11:00am - 11:50am<br>Th 12:30pm - 1:20pm | Seats (Total: 21)<br>SKN 0200<br>SYM 0209 | Discussion |
| 0106 | Jorge Bravo<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 21)<br>SKN 0200<br>SKN 1115 | Discussion |
| 0107 | Jorge Bravo<br>MW 11:00am - 11:50am<br>F 1:00pm - 1:50pm | Seats (Total: 21)<br>SKN 0200<br>EDU 3233 | Discussion |
| 0108 | Jorge Bravo<br>MW 11:00am - 11:50am<br>Th 11:00am - 11:50am | Seats (Total: 21)<br>SKN 0200<br>PHY 2211 | Discussion |
| 0109 | Jorge Bravo<br>MW 11:00am - 11:50am<br>Th 9:30am - 10:20am | Seats (Total: 22)<br>SKN 0200<br>PLS 1117 | Discussion |
| FC01 | Kathleen Garland<br>TuTh 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>JMZ 2123 | |

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|---|---|---|---|
| FC02 | Kathleen Garland<br>TuTh 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>TYD 0102 | |
| FC03 | Mary Contreras<br>MW 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>TYD 0102 | |

**CLAS190** **Discovering the World of Ancient Rome**

*Cross-listed with: HIST219T. Credit only granted for: CLAS190 or HIST219T.*

*An exploration of the cultural traits and developments of ancient Roman civilization from its roots in Etruscan culture, through the rise of the Roman Republic, to the expansion of Roman cultural influence in the ancient world and the emergence of the Roman Empire. Drawing upon the evidence of the archaeological remains as well as ancient historical and literary documents, students gain a basic familiarity with the principal monuments and artifacts of ancient Roman civilization, the various institutions and values that characterized the Romans, and the significant historical events that transformed the culture over the course of antiquity.*

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|---|---|---|---|
| 0101 | Jorge Bravo<br>MW 2:00pm - 3:15pm | Seats (Total: 35)<br>PHY 0405 | |

**CLAS274** **What is Romance?**

*What is romance? This course approaches the question by reading ancient Greek romance novels in tandem with works inspired by them from a range of times and places. We will attempt to identify which traits define romance in a society and how romance narratives change in translation and adaptation.*

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|---|---|---|---|
| 0101 | Katherine Wasdin<br>TuTh 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 25)<br>TMH 0301<br>JMZ 1120 | Discussion |
| 0102 | Katherine Wasdin<br>TuTh 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 25)<br>TMH 0301<br>JMZ 1120 | Discussion |
| 0103 | Katherine Wasdin<br>TuTh 11:00am - 11:50am<br>F 1:00pm - 1:50pm | Seats (Total: 25)<br>TMH 0301<br>JMZ 1120 | Discussion |
| 0104 | Katherine Wasdin<br>TuTh 11:00am - 11:50am<br>F 2:00pm - 2:50pm | Seats (Total: 25)<br>TMH 0301<br>JMZ 1120 | Discussion |

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|---|---|---|---|---|
| 0105 | Katherine Wasdin<br>TuTh 11:00am - 11:50am<br>F 3:00pm - 3:50pm | Seats (Total: 25) | TMH 0301<br>JMZ 1117 | Discussion |
| 0106 | Katherine Wasdin<br>TuTh 11:00am - 11:50am<br>F 4:00pm - 4:50pm | Seats (Total: 25) | TMH 0301<br>JMZ 1117 | Discussion |

**CLAS305** **Archaeological Methods and Practice**

*Prerequisite: ANTH240, ARTH200, CLAS180, or CLAS190. Cross-listed with: ANTH305, ARTH305, JWST319Y. Credit only granted for: ANTH305, ARTH305, CLAS305, or JWST319Y.*

*A team-taught, interdisciplinary course discussing theories, methods, and ethical issues in the practice of archaeology.*

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|---|---|---|---|---|
| 0101 | Christian Cloke<br>TuTh 2:00pm - 3:15pm | Seats (Total: 35) | SQH 1121 | |

**CLAS310** **Ancient Greek and Roman Philosophy**

*Prerequisite: Must have completed 6 credits in philosophy or classics. Cross-listed with: PHIL310, PHPE308Y. Credit only granted for: PHIL310, CLAS310, or PHPE308Y.*

*A study of the origins and development of philosophy in ancient Greece and Rome, focusing on Socrates, Plato, Aristotle, the Epicureans, and Stoics.*

Cross-listed with PHIL310 and PHPE308Y. Credit only granted for PHIL310, PHPE308Y, or CLAS310.

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|---|---|---|---|---|
| 0101 | Rachel Singpurwalla<br>TuTh 12:30pm - 1:20pm<br>F 10:00am - 10:50am | Seats (Total: 20) | ESJ 1202<br>EDU 1121 | Discussion |
| 0102 | Rachel Singpurwalla<br>TuTh 12:30pm - 1:20pm<br>F 11:00am - 11:50am | Seats (Total: 20) | ESJ 1202<br>TWS 0207 | Discussion |
| 0103 | Rachel Singpurwalla<br>TuTh 12:30pm - 1:20pm<br>F 1:00pm - 1:50pm | Seats (Total: 20) | ESJ 1202<br>EDU 2119 | Discussion |

**CLAS312** **The Modernity of Athenian Democracy**

*Examines the question of how Ancient Greek thought can be a tool for facing the challenges of the modern world. Topics such as political participation and engagement in politics, lawfulness and justice, freedom and autonomy, democracy and civic responsibility are found at the core of Ancient Greek thought. In addition to these topics, the course explores, through the teachings of ancient Greek philosophers, historians, and poets, the questions of virtue and happiness at a personal level and the pursuit of happiness at the societal level. Love and friendship are necessary virtues to shape a harmonious and prosperous polis. By studying selected excerpts from the primary sources of Ancient Greek literature in translation, the course defines the core values of democratic society from the viewpoint of the Greeks.*

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|---|---|---|
| 0101 | Polyvia Parara | Seats (Total: 35) |
| | MW 2:00pm - 3:15pm | WDS 1114 |

**CLAS322** **Roman Freedpersons**

*The literary remains of three Roman freedpersons--the editor and biographer Tiro (c. 80-4 BCE), the poet and fabulist Phaedrus (fl. 1st cen. CE), and the philosopher Epictetus (c. 55-135 CE)--give us a rare glimpse into the internal experience of persons enslaved and emancipated by Roman elites. To contextualize these experiences, we study the legal basis of Roman slavery, epigraphic self-representations, and stereotyping representations of freedpersons by free authors. We also read our authors against comparable works by freeborn analogues--the senator Cicero, the poet Horace, and the philosopher Seneca--to test the boundaries of how the identity of libertus ("freedman") affected and failed to affect our authors' literary aims. To deepen our study of how historical conditions shape the creation of freed authorship and the transmission of freed authors, we also read, and consider the conditions surrounding the publication of, American freedpersons' literature.*

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|---|---|---|
| 0101 | Peter Osorio | Seats (Total: 35) |
| | TuTh 9:30am - 10:45am | SKN 1115 |

**CLAS375** **Ancient Comedy**

*Representative plays by Aristophanes, Menander, Plautus and Terence in translation; examination of Greek tradition in Roman and postclassical periods.*

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|---|---|---|
| 0101 | Francisco Barrenechea Cuadra | Seats (Total: 35) |
| | TuTh 11:00am - 12:15pm | AJC 2132 |

**CLAS499** **Independent Study in Classical Languages and Literatures**

(Perm req)

**Contact department for information to register for this course.**

# CLFS Chemical and Life Sciences Fall 2024

**CLFS608** **Seminar in Current Topics in Chemical and Life Science; Scholarly Paper**

(Perm req)

*Seminar in current topics in the Life Sciences. Contact Program Director or instructor before registering.*

Contact Dr. Marcia Shofner (mclfs@umd.edu) to establish a mentor; and then contact exst@umd.edu to register. Golden ID students are not eligible for this course.

**Contact department for information to register for this course.**

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**CLFS608A** **Seminar in Current Topics in Chemical and Life Science; Independent Research**

(Perm req)

*Seminar in current topics in the Life Sciences. Contact Program Director or instructor before registering.*

Contact exst@umd.edu to register. Golden ID students are not eligible for this course.

**Contact department for information to register for this course.**

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**CLFS609K** **Special Topics; Current Topics in Biomedical Research**

*Individual instruction course. Contact Program Director or instructor before registering.*

Biomedical research worldwide aims to identify ways to prevent and treat diseases that cause illness and death in people and animals. In this course, we will explore a diverse array of biomedical research topics including gene editing, infectious diseases, precision medicine in cancer drug discovery, cognitive aging and Alzheimers disease, drugs of addiction, health disparities, how stress influences health, and psychiatric disorders. The goal of the course is to explore cutting edge advances in biomedicine through reading and discussing primary research articles reporting findings from current studies. Students will feel comfortable delving into, reading, and discussing the primary literature and have a clearer understanding of the biomedical hot topics that are affecting communities worldwide by the end of the course.

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|---|---|---|
| PLC1 | Cristina Banuelos | Seats (Total: 5) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |

*Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this course.*

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**CLFS610** **Natural Products Chemistry**

*Restriction: Permission of CMNS-Chemical & Life Sciences department. Credit only granted for: LFSC609D or LFSC610. Formerly: LFSC609D.*

*Foundations of natural products chemistry; how nature goes about making (biosynthesizing) these compounds and elements of enzymology and genomics relevant to production of these compounds; relevance of natural products chemistry as a driving force for drug discovery and innovation in biotechnology.*

Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this course.

*Click here for program information.*

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|---|---|---|
| PLC1 | Marjan Alaghmand | Seats (Total: 8) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Must be in the Master of Chemical and Life Sciences program. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

# CMLT Comparative Literature Fall 2024

**CMLT235** **Black Diaspora Literature and Culture**

*Examination of key works by writers of the African Diaspora. Relationship among black people across multiple geographic spaces; Africa, the Caribbean, the United States, Europe, Latin America, and Asia. Specific historical, cultural, and literary contexts; themes such as gender, sexuality, migration, slavery, freedom, and equality. Readings may include literary texts (fiction, poetry, drama), music and film. All readings in English, but drawn from multiple languages of the black diaspora, including English, Spanish, French and Portuguese.*

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|---|---|---|
| 0101 | Victoria Moten | Seats (Total: 30) |
| | TuTh 9:30am - 10:45am | TWS 1106 |

**CMLT242** **Diversify and Multiply: Jewish Culture and the Production of an Identity**

*Cross-listed with: JWST272. Credit only granted for: JWST272, CMLT242, or ISRL249G.*

*Provides students with a unique exploration of cultural products produced by a diverse array of Jewish creators of literature, comedy and film. The texts, films, and performing arts touch on the central social, economic, and cultural issues of Jews during the ages, and up to the 21st century. This course will explore Jewish creativity throughout history, as well as the Jewish encounter with modernity as a whole. We will be diving into prominent creators such as Tiffany Haddish, Larry David, Sholem Aleichem, Adam Sandler, S. Y. Abramovitsch, Judd Apatow, Philip Roth, Amy Schumer, I. B. Singer, Ben Stiller, Franz Kafka, Dan Levy, and others. Examining their creations will open a window to the diverse methods of construction of modern Jewish identities.*

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|---|---|---|
| 0101 | Adi Mahalel | Seats (Total: 30) |
| | TuTh 3:30pm - 4:45pm | ASY 3203 |

**CMLT269C** **Special Topics in Study Abroad II; Modern Catalan Literature**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**CMLT270** **Global Literature and Social Change**

*Comparative study of literature through selected literary works from several non-Western cultures, viewed cross-culturally in light of particular social, political, and economic perspectives.*

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|---|---|---|
| 0101 | Nahid Ahmadian<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>TWS 0221 |
| 0201 | Sydney Sharpstene<br>MWF 11:00am - 11:50am | Seats (Total: 30)<br>TWS 0214 |

**CMLT275** **World Literature by Women**

*Cross-listed with: WGSS275. Credit only granted for: WMST275, CMLT275 or WGSS275. Formerly: WMST275.*

*Comparative study of selected works by women writers of several countries, exploring points of intersection and divergence in women's literary representations.*

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|---|---|---|
| 0201 | Daniel Sidman<br>MW 2:00pm - 3:15pm | Seats (Total: 30)<br>TWS 1106 |

**CMLT277** **Literatures of the Americas**

*Comparative study of several North, South, and Central American cultures with a focus on the specificities, similarities, and divergences of their literary and cultural texts.*

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|---|---|---|
| 0101 | Nasim DarouieHaghighi<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>TWS 0234 |

**CMLT280** **Film Art in a Global Society**

*Cross-listed with: CINE280. Credit only granted for: CINE280, FILM298D or CMLT280. Formerly: FILM298D.*

*Comparative study of a variety of film traditions from around the world, including cinema from Hollywood, Europe, Asia and developing countries, with a stress on different cultural contexts for film-making and viewing.*

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|---|---|---|
| 0101 | Ariana Nash<br>MWF 1:00pm - 1:50pm | Seats (Total: 30)<br>TWS 0234 |
| 0201 | Mehdy Sedaghat Payam<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>TWS 0236 |

**CMLT369A** **Special Topics in Study Abroad III; Postcolonial Literatures in English I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**CMLT369T** **Special Topics in Study Abroad III; Politics and Literature in the 20th Century**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**CMLT369X** **Special Topics in Study Abroad III; Shakespeare and Lope de Vega**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**CMLT386** **Experiential Learning**

(Perm req)

*Restriction: Junior standing or higher; and permission of ARHU-English department.*

**Contact department for information to register for this course.**

**CMLT398G** **Special Topics in Comparative Studies; Mystical Love Poetry: East and West**

*Special topics in comparitive studies.*

Cross-listed with PERS398M. Credit only granted for PERS398M or CMLT398G. Sufis and mystics like Rumi, Teresa of Avila, John of the Cross, Francisof Assisi, and others like them are among the most influential figures in human history. Although they lived in different times and cultures, they shared the belief that the purpose of human creation i love, and they expressed their thoughts in their love poetry. In this course, we explore the life experiences of these mystics as we read their poems in English translation. We ask questions such as "What is experience?", "When can experience be called mystical?", "Is there a special connection between love and poetry?", and "Why did these thinkers express their mystical encounter with love in poetry?".

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|---|---|---|
| 0101 | Fatemeh Keshavarz-Karamustafa | Seats (Total: 15) |
| | TuTh 12:30pm - 1:45pm | JMZ 1224 |

**CMLT398T** **Special Topics in Comparative Studies; Postcolonial Literature in English I**

*Special topics in comparitive studies.*

**Contact department for information to register for this course.**

**CMLT399E** **The Great Derangement: Climate, Art, and Literature**

*Recommended: 200-level General Education and/or humanities course; and sophomore standing. Cross-listed with: GERS367. Credit only granted for: GERM399E, CMLT399E, or GERS367. Formerly: GERM399E. Additional information: Priority in enrollment will be given to German majors.*

*An investigation of the relationship between climate and art & literature. Introduction to ecological thinking followed by study of artistic and literary works thematically grouped by the four elements: Earth, Water, Air, and Fire. Readings from the German literary tradition (Goethe, Tieck, Stifter, Kafka, Frisch, Wolf) and contemporary research in the environmental humanities, with additional readings and viewings from elsewhere on the planet. Taught in English.*

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|---|---|---|
| 0101 | Josh Alvizu | Seats (Total: 25) |
| | MWF 1:00pm - 1:50pm | JMZ 2206 |

**CMLT498T** **Selected Topics in Comparative Studies; Sufism: History, Literature, and Politics of Islamic Mysticism**

Cross-listed with PERS689T, PERS498T, HIST428Q, HIST638Q, and RELS419Q. Credit only granted for PERS498T, PERS689T, CMLT498T, HIST428Q, HIST638Q, or RELS419Q. Provides an introduction to the history, literature, and politics of Sufism the Islamic "mystical" mode of piety from its origins to the modern period.

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|---|---|---|
| 0101 | Matthew Miller | Seats (Total: 25) |
| | Tu 12:30pm - 3:15pm | JMZ 0125 |

**CMLT498V** **Selected Topics in Comparative Studies; Lost in Translation**
**Contact department for information to register for this course.**

**CMLT679B** **Topics in Comparative Studies; Methods and Issues in Cinema and Media Studies**

(Perm req)

*Seminar in modern and contemporary literature: as announced.*

Cross-listed with ENGL759E and CINE469M. Credit granted for ENGL759E, CMLT679B or CINE469M. Offers an introduction to ways of reading, writing about, and teaching cinema and media. The focus of discussion will range from methods of close analysis and basic concepts of film form, technique, and style; through industrial/critical categories of genre and authorship (studios,stars, directors); through aspects of the cinema as a social institution, psycho-sexual apparatus and cultural practice; to the relationship between filmic texts and the historical horizon of production and reception; to the historical and contemporary questions arising from a comparative media approach.

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|---|---|---|
| 0101 | Oliver Gaycken | Seats (Total: 15) |
| | W 3:30pm - 6:00pm | TWS 3252 |

**CMLT699** **Independent Study**

(Perm req)

*Research and writing on specific readings on a topic selected by the student which is approved and supervised by a faculty member.*

**Contact department for information to register for this course.**

**CMLT799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**CMLT898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**CMLT899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# CMNS Computer, Math, and Natural Sciences — Fall 2024

**CMNS100** **Becoming a Science Terp**

*Restriction: Primary major must be in the College of Computer, Mathematical and Natural Sciences (CMNS); and must be first semester CMNS freshman student . Credit only granted for: UNIV100 or CMNS100.*

*Introduces students to the College of Computer, Mathematical, and Natural Sciences (CMNS) and the University. In a small classroom setting taught by CMNS faculty/staff, students will explore their college transition with a focus on: academic success skills, navigating college and campus resources, diversity, identity and inclusion, and career exploration. Each section of the course will have a CMNS Peer Mentor teaching assistant.*

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|---|---|---|
| 0101 | Evelyn Covington-Moore<br>Th 9:00am - 10:50am<br>*Resticted to any CMNS major.* | Seats (Total: 23)<br>SYM 3121 |
| 0102 | Eden Hurley, Kenny Coronel<br>Tu 12:00pm - 1:50pm<br>*Restricted to BSCI-CHEM-BCHM majors or UMB-Nursing students (major code 12031).* | Seats (Total: 23)<br>HBK 0103 |
| 0103 | Rachel Blanset<br>M 2:00pm - 3:50pm<br>*Restricted to BSCI-CHEM-BCHM majors, UMB-Nursing students (major code 12031) or Neuroscience majors (04250).* | Seats (Total: 23)<br>PLS 1168 |
| 0104 | Gene Ferrick<br>Th 10:00am - 11:50am<br>*Restricted to BSCI-CHEM-BCHM majors or UMB-Nursing students (major code 12031).* | Seats (Total: 23)<br>WDS 1102 |
| 0105 | Erin Thomson<br>M 1:00pm - 2:50pm<br>*Restricted to non-CMNS majors who are in the Life Sciences-College Park Scholars Program.* | Seats (Total: 12)<br>PLS 1158 |
| 0106 | Shiloh Ortiz<br>M 10:00am - 11:50am<br>*Restricted to BSCI-CHEM-BCHM majors or UMB-Nursing students (major code 12031).* | Seats (Total: 23)<br>PLS 1115 |
| 0107 | Victoria Fitzgerald<br>M 2:00pm - 3:50pm<br>*Restricted to Neuroscience majors (04250).* | Seats (Total: 23)<br>JMZ 1124 |

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|---|---|---|
| 0108 | Amber Schlereth<br>Th 2:00pm - 3:50pm<br>*Restricted to Neuroscience majors (04250).* | Seats (Total: 23)<br>JMZ 3120 |
| 0109 | Earl Johnson<br>Tu 1:00pm - 2:50pm<br>*Restricted to BSCI-CHEM-BCHM majors or UMB-Nursing students (major code 12031).* | Seats (Total: 23)<br>JMZ 0120 |
| 0110 | Marsha Guenzler-Stevens<br>Tu 1:00pm - 2:50pm<br>*Restricted to BioFire students.* | Seats (Total: 23)<br>SOM 0101 |
| 0111 | Eno Abrefa<br>M 2:00pm - 3:50pm<br>*Restricted to BioFire students.* | Seats (Total: 20)<br>SOM 0101 |
| 0112 | Katerina Thompson, Jennifer Guy<br>W 12:00pm - 1:50pm<br>*Restricted to BioFire students.* | Seats (Total: 23)<br>SOM 0101 |
| 0113 | Clay Smith<br>F 1:00pm - 2:50pm<br>*Resticted to any CMNS major.* | Seats (Total: 23)<br>WDS 1102 |
| 0114 | Brittany Gonzalez<br>W 9:00am - 10:50am<br>*Restricted to BSCI-BCHM-CHEM majors or UMB-Nursing students (major code 12031).* | Seats (Total: 23)<br>HBK 1108 |
| 0115 | Charles Delwiche<br>Tu 4:00pm - 5:50pm<br>*Restricted to BSCI-BCHM-CHEM majors or UMB-Nursing students (major code 12031).* | Seats (Total: 23)<br>PLS 1117 |
| 0116 | Amanda Schech<br>Th 10:00am - 11:50am<br>*Restricted to BSCI-BCHM-CHEM majors or UMB-Nursing students (major code 12031).* | Seats (Total: 23)<br>HBK 0125 |

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|---|---|---|
| 0117 | Monique Koppel<br>W 10:00am - 11:50am | Seats (Total: 23)<br>WDS 1102 |
| | *Restricted to BSCI-CHEM-BCHM majors, UMB-Nursing students (major code 12031) or Neuroscience majors (04250).* | |
| 0118 | Joyce Koo<br>Tu 9:00am - 10:50am | Seats (Total: 20)<br>WDS 1102 |
| | *Restricted to BSCI-CHEM-BCHM majors or UMB-Nursing students (major code 12031).* | |
| 0119 | Sarah-Jo Lawrence<br>Tu 9:00am - 10:50am | Seats (Total: 23)<br>PLS 1168 |
| | *Restricted to BSCI-CHEM-BCHM majors or UMB-Nursing students (major code 12031).* | |
| 0120 | Thomas Gleason, Melissa Hayes-Gehrke<br>Tu 9:00am - 10:50am | Seats (Total: 20)<br>EGR 3111 |
| | *Restricted to Students in the Chesapeake Scholars Program.* | |

# CMSC Computer Science Fall 2024

**CMSC100** **Bits and Bytes of Computer and Information Sciences**

*Restriction: For first time freshmen and first time transfer students; or permission of CMNS-Computer Science department. Cross-listed with: INST101. Credit only granted for: CMSC100 or INST101.*

*Students are introduced to the fields (and disciplines) of computer science and information science within a small classroom setting. They will learn to make a successful transition from high school to the university, while exploring study skills, student success plans and research opportunities.*

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| 0101 | Shantelle Aidoo<br>Tu 4:00pm - 4:50pm | Seats (Total: 35)<br>IRB 1207 |
| 0201 | Nicole Lemme<br>W 9:00am - 9:50am | Seats (Total: 35)<br>IRB 1207 |
| 0301 | Rolda Charles<br>M 3:00pm - 3:50pm | Seats (Total: 35)<br>CSI 3118 |
| 0401 | Keren Ding<br>F 1:00pm - 1:50pm | Seats (Total: 35)<br>IRB 2207 |

**CMSC106** **Introduction to C Programming**

*Prerequisite: MATH115. Restriction: Must not be in Computer Science program; and must not have completed any courses from CMSC131-499 course range. Credit only granted for: CMSC106 or CMSC122.*

*Design and analysis of programs in C. An introduction to computing using structured programming concepts. Intended for students with no or minimal programming experience.*

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|---|---|---|---|
| 0101 | Maksym Morawski | Seats (Total: 50) | |
| | TuTh 12:30pm - 1:45pm | IRB 2207 | |
| | TuTh 5:00pm - 5:50pm | IRB 2207 | Discussion |

**CMSC122 Introduction to Computer Programming via the Web**

*Restriction: Must not have completed any courses from CMSC131-499 course range; and must not be concurrently enrolled in CMSC131. Credit only granted for: CMSC106, or CMSC122.*

*Introduction to computer programming in the context of developing full featured dynamic web sites. Uses a problem solving approach to teach basics of program design and implementation using JavaScript; relates these skills to creation of dynamic web sites; then explores both the potential and limits of web-based information sources for use in research. Intended to help relate a student's major to these emerging technologies.*

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|---|---|---|
| 0101 | Pedram Sadeghian | Seats (Total: 100) |
| | MWF 1:00pm - 1:50pm | IRB 0318 |
| FC01 | Jennifer Manly | Seats (Total: 64) |
| | TuTh 4:30pm - 5:45pm | IRB 1116 |
| | *Restricted to students in Freshmen Connection.* | |

**CMSC125 Introduction to Computing**

*Prerequisite: Must have completed or be concurrently enrolled in MATH115 or higher. Restriction: Must not be in the Computer Science program; and must not have completed any courses from CMSC131-499; and must not have completed BMGT302, IMDM127 or INST126. Credit only granted for: IMDM127 or CMSC125.*

*Introduces you to the computing field as a whole. You will gain skills used across the spectrum of computing majors and learn about the great variety of routes into the various areas of study and employment in technological fields.*

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|---|---|---|
| 0101 | Elias Gonzalez | Seats (Total: 54) |
| | MWF 11:00am - 11:50am | IRB 2207 |

**CMSC131 Object-Oriented Programming I**

*Corequisite: MATH140. Credit only granted for: CMSC131, CMSC133 or CMSC141.*

*Introduction to programming and computer science. Emphasizes understanding and implementation of applications using object-oriented techniques. Develops skills such as program design and testing as well as implementation of programs using a graphical IDE. Programming done in Java.*

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|---|---|---|---|
| 0101 | Elias Gonzalez<br>MWF 9:00am - 9:50am<br>MW 11:00am - 11:50am | Seats (Total: 34)<br>IRB 0324<br>CSI 1122 | Discussion |
| 0102 | Elias Gonzalez<br>MWF 9:00am - 9:50am<br>MW 11:00am - 11:50am | Seats (Total: 34)<br>IRB 0324<br>CSI 2118 | Discussion |
| 0103 | Elias Gonzalez<br>MWF 9:00am - 9:50am<br>MW 11:00am - 11:50am | Seats (Total: 32)<br>IRB 0324<br>CSI 2120 | Discussion |
| 0104 | Elias Gonzalez<br>MWF 9:00am - 9:50am<br>MW 12:00pm - 12:50pm | Seats (Total: 34)<br>IRB 0324<br>CSI 2107 | Discussion |
| 0105 | Elias Gonzalez<br>MWF 9:00am - 9:50am<br>MW 12:00pm - 12:50pm | Seats (Total: 34)<br>IRB 0324<br>CSI 2118 | Discussion |
| 0106 | Elias Gonzalez<br>MWF 9:00am - 9:50am<br>MW 12:00pm - 12:50pm | Seats (Total: 34)<br>IRB 0324<br>CSI 2120 | Discussion |
| 0107 | Elias Gonzalez<br>MWF 9:00am - 9:50am<br>MW 1:00pm - 1:50pm | Seats (Total: 32)<br>IRB 0324<br>CSI 2107 | Discussion |
| 0108 | Elias Gonzalez<br>MWF 9:00am - 9:50am<br>MW 1:00pm - 1:50pm | Seats (Total: 32)<br>IRB 0324<br>CSI 2118 | Discussion |
| 0201 | Elias Gonzalez<br>MWF 10:00am - 10:50am<br>MW 11:00am - 11:50am | Seats (Total: 32)<br>IRB 0324<br>CSI 3118 | Discussion |

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| 0202 | Elias Gonzalez<br>MWF 10:00am - 10:50am<br>MW 11:00am - 11:50am | Seats (Total: 34)<br>IRB 0324<br>CSI 3120 | Discussion |
| 0203 | Elias Gonzalez<br>MWF 10:00am - 10:50am<br>MW 12:00pm - 12:50pm | Seats (Total: 32)<br>IRB 0324<br>CSI 1122 | Discussion |
| 0204 | Elias Gonzalez<br>MWF 10:00am - 10:50am<br>MW 12:00pm - 12:50pm | Seats (Total: 34)<br>IRB 0324<br>CSI 3118 | Discussion |
| 0206 | Elias Gonzalez<br>MWF 10:00am - 10:50am<br>MW 1:00pm - 1:50pm | Seats (Total: 34)<br>IRB 0324<br>CSI 1122 | Discussion |
| 0207 | Elias Gonzalez<br>MWF 10:00am - 10:50am<br>MW 1:00pm - 1:50pm | Seats (Total: 34)<br>IRB 0324<br>CSI 3118 | Discussion |
| 0208 | Elias Gonzalez<br>MWF 10:00am - 10:50am<br>MW 1:00pm - 1:50pm | Seats (Total: 34)<br>IRB 0324<br>CSI 3120 | Discussion |
| 0301 | Pedram Sadeghian<br>MWF 11:00am - 11:50am<br>TuTh 11:00am - 11:50am | Seats (Total: 32)<br>IRB 0324<br>CSI 2107 | Discussion |
| 0302 | Pedram Sadeghian<br>MWF 11:00am - 11:50am<br>TuTh 8:00am - 8:50am | Seats (Total: 32)<br>IRB 0324<br>IRB 1207 | Discussion |
| 0303 | Pedram Sadeghian<br>MWF 11:00am - 11:50am<br>TuTh 9:30am - 10:20am | Seats (Total: 34)<br>IRB 0324<br>CSI 2107 | Discussion |
| 0305 | Pedram Sadeghian<br>MWF 11:00am - 11:50am<br>TuTh 11:00am - 11:50am | Seats (Total: 34)<br>IRB 0324<br>CSI 2118 | Discussion |

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|---|---|---|---|
| 0307 | Pedram Sadeghian<br>MWF 11:00am - 11:50am<br>TuTh 12:30pm - 1:20pm | Seats (Total: 32)<br>IRB 0324<br>CSI 2107 | Discussion |
| 0309 | Pedram Sadeghian<br>MWF 11:00am - 11:50am<br>TuTh 12:30pm - 1:20pm | Seats (Total: 32)<br>IRB 0324<br>CSI 2120 | Discussion |
| 0401 | Pedram Sadeghian<br>MWF 12:00pm - 12:50pm<br>TuTh 9:30am - 10:20am | Seats (Total: 32)<br>IRB 0324<br>CSI 2118 | Discussion |
| 0404 | Pedram Sadeghian<br>MWF 12:00pm - 12:50pm<br>TuTh 11:00am - 11:50am | Seats (Total: 32)<br>IRB 0324<br>CSI 3118 | Discussion |
| 0405 | Pedram Sadeghian<br>MWF 12:00pm - 12:50pm<br>TuTh 11:00am - 11:50am | Seats (Total: 32)<br>IRB 0324<br>CSI 3120 | Discussion |
| 0406 | Pedram Sadeghian<br>MWF 12:00pm - 12:50pm<br>TuTh 12:30pm - 1:20pm | Seats (Total: 32)<br>IRB 0324<br>CSI 3118 | Discussion |
| 0408 | Pedram Sadeghian<br>MWF 12:00pm - 12:50pm<br>TuTh 8:00am - 8:50am | Seats (Total: 32)<br>IRB 0324<br>IRB 1207 | Discussion |
| FC01 | Aaron Kyei-Asare<br>TuTh 6:00pm - 7:15pm<br>MW 6:00pm - 6:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 28)<br>CSI 1115<br>CSI 1121 | Discussion |
| FC02 | Aaron Kyei-Asare<br>TuTh 6:00pm - 7:15pm<br>MW 6:00pm - 6:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 28)<br>CSI 1115<br>CSI 1122 | Discussion |

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|---|---|---|---|
| FC03 | Aaron Kyei-Asare<br>TuTh 6:00pm - 7:15pm<br>MW 6:00pm - 6:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 28)<br>CSI 1115<br>CSI 2107 | Discussion |

**CMSC132** **Object-Oriented Programming II**

*Prerequisite: Minimum grade of C- in CMSC131; or must have earned a score of 5 on the A Java AP exam; or must have earned a satisfactory score on the departmental placement exam; and minimum grade of C- in MATH140. Credit only granted for: CMSC132 or CMSC142.*

*Introduction to use of computers to solve problems using software engineering principles. Design, build, test, and debug medium -size software systems and learn to use relevant tools. Use object-oriented methods to create effective and efficient problem solutions. Use and implement application programming interfaces (APIs). Programming done in Java.*

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|---|---|---|---|
| 0101 | Larry Herman<br>MWF 1:00pm - 1:50pm<br>MW 2:00pm - 2:50pm | Seats (Total: 34)<br>IRB 0324<br>CSI 1121 | Discussion |
| 0102 | Larry Herman<br>MWF 1:00pm - 1:50pm<br>MW 2:00pm - 2:50pm | Seats (Total: 34)<br>IRB 0324<br>CSI 1122 | Discussion |
| 0103 | Larry Herman<br>MWF 1:00pm - 1:50pm<br>MW 2:00pm - 2:50pm | Seats (Total: 34)<br>IRB 0324<br>CSI 2107 | Discussion |
| 0104 | Larry Herman<br>MWF 1:00pm - 1:50pm<br>MW 3:00pm - 3:50pm | Seats (Total: 34)<br>IRB 0324<br>CSI 1121 | Discussion |
| 0105 | Larry Herman<br>MWF 1:00pm - 1:50pm<br>MW 3:00pm - 3:50pm | Seats (Total: 34)<br>IRB 0324<br>CSI 1122 | Discussion |
| 0106 | Larry Herman<br>MWF 1:00pm - 1:50pm<br>MW 4:00pm - 4:50pm | Seats (Total: 34)<br>IRB 0324<br>CSI 1121 | Discussion |
| 0107 | Larry Herman<br>MWF 1:00pm - 1:50pm<br>MW 4:00pm - 4:50pm | Seats (Total: 32)<br>IRB 0324<br>CSI 1122 | Discussion |

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|---|---|---|---|
| 0201 | Larry Herman<br>MWF 2:00pm - 2:50pm<br>MW 3:00pm - 3:50pm | Seats (Total: 36)<br>IRB 0324<br>CSI 2107 | Discussion |
| 0202 | Larry Herman<br>MWF 2:00pm - 2:50pm<br>MW 3:00pm - 3:50pm | Seats (Total: 36)<br>IRB 0324<br>CSI 2118 | Discussion |
| 0203 | Larry Herman<br>MWF 2:00pm - 2:50pm<br>MW 3:00pm - 3:50pm | Seats (Total: 36)<br>IRB 0324<br>PHY 2213 | Discussion |
| 0204 | Larry Herman<br>MWF 2:00pm - 2:50pm<br>MW 4:00pm - 4:50pm | Seats (Total: 36)<br>IRB 0324<br>CSI 2118 | Discussion |
| 0205 | Larry Herman<br>MWF 2:00pm - 2:50pm<br>MW 4:00pm - 4:50pm | Seats (Total: 36)<br>IRB 0324<br>CSI 2120 | Discussion |
| 0206 | Larry Herman<br>MWF 2:00pm - 2:50pm<br>MW 5:00pm - 5:50pm | Seats (Total: 36)<br>IRB 0324<br>CSI 2107 | Discussion |
| 0301 | Nora Burkhauser<br>MW 3:30pm - 4:45pm<br>MW 8:00am - 8:50am | Seats (Total: 28)<br>MMH 1400<br>CSI 1121 | Discussion |
| 0302 | Nora Burkhauser<br>MW 3:30pm - 4:45pm<br>MW 9:00am - 9:50am | Seats (Total: 28)<br>MMH 1400<br>CSI 1122 | Discussion |
| 0303 | Nora Burkhauser<br>MW 3:30pm - 4:45pm<br>MW 9:00am - 9:50am | Seats (Total: 29)<br>MMH 1400<br>CSI 2107 | Discussion |
| 0304 | Nora Burkhauser<br>MW 3:30pm - 4:45pm<br>MW 10:00am - 10:50am | Seats (Total: 35)<br>MMH 1400<br>CSI 2107 | Discussion |

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|---|---|---|---|
| 0305 | Nora Burkhauser<br>MW 3:30pm - 4:45pm<br>MW 10:00am - 10:50am | Seats (Total: 35)<br>MMH 1400<br>CSI 1122 | Discussion |
| 0306 | Nora Burkhauser<br>MW 3:30pm - 4:45pm<br>MW 11:00am - 11:50am | Seats (Total: 35)<br>MMH 1400<br>CSI 1121 | Discussion |

**CMSC133** **Object Oriented Programming I Beyond Fundamentals**

(Perm req)

*Prerequisite: Must have completed or be concurrently enrolled in MATH140. Restriction: Permission of CMNS-Computer Science department; and student must have earned a 4 on the AP Computer Science A exam or a satisfactory score on the CMSC131 department placement exam. Credit only granted for: CMSC131 or CMSC133.*

*An introduction to computer science and object-oriented programming for students with prior Java programming knowledge (conditionals, loops, methods). Program design, implementation, and testing using object-oriented techniques. All programming will be done in Java using a graphical IDE.*

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| 0101 | Nora Burkhauser<br>Tu 11:00am - 12:15pm<br>Th 11:00am - 11:50am | Seats (Total: 60)<br>EGR 0108<br>PLS 1130 | Discussion |

**CMSC216** **Introduction to Computer Systems**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC132; and minimum grade of C- in MATH141. Restriction: Must be in a major within the CMNS-Computer Science department; or must be in Engineering: Computer program; or must be in the Computer Science Minor program; and Permission of CMSC - Computer Science department.*

*Introduction to the interaction between user programs and the operating system/hardware. Major topics include C programming, introductory systems programming, and assembly language. Other concepts covered include UNIX, machine data representation, thread management, optimization, and virtual memory. Programming is done in the Linux Environment.*

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|---|---|---|---|
| 0101 | Christopher Kauffman<br>TuTh 9:30am - 10:45am<br>MW 8:00am - 8:50am | Seats (Total: 36)<br>IRB 0324<br>CSI 1122 | Discussion |
| 0102 | Christopher Kauffman<br>TuTh 9:30am - 10:45am<br>MW 9:00am - 9:50am | Seats (Total: 36)<br>IRB 0324<br>CSI 2120 | Discussion |

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|---|---|---|---|
| 0103 | Christopher Kauffman<br>TuTh 9:30am - 10:45am<br>MW 10:00am - 10:50am | Seats (Total: 36)<br>IRB 0324<br>CSI 3118 | Discussion |
| 0104 | Christopher Kauffman<br>TuTh 9:30am - 10:45am<br>MW 10:00am - 10:50am | Seats (Total: 36)<br>IRB 0324<br>CSI 3120 | Discussion |
| 0105 | Christopher Kauffman<br>TuTh 9:30am - 10:45am<br>MW 2:00pm - 2:50pm | Seats (Total: 36)<br>IRB 0324<br>CSI 3118 | Discussion |
| 0106 | Christopher Kauffman<br>TuTh 9:30am - 10:45am<br>MW 2:00pm - 2:50pm | Seats (Total: 36)<br>IRB 0324<br>CSI 3120 | Discussion |
| 0107 | Christopher Kauffman<br>TuTh 9:30am - 10:45am<br>MW 1:00pm - 1:50pm | Seats (Total: 36)<br>IRB 0324<br>CSI 2120 | Discussion |
| 0108 | Christopher Kauffman<br>TuTh 9:30am - 10:45am<br>MW 11:00am - 11:50am | Seats (Total: 36)<br>IRB 0324<br>EGR 3106 | Discussion |
| 0201 | Christopher Kauffman<br>TuTh 11:00am - 12:15pm<br>MW 8:00am - 8:50am | Seats (Total: 36)<br>IRB 0324<br>CSI 2120 | Discussion |
| 0202 | Christopher Kauffman<br>TuTh 11:00am - 12:15pm<br>MW 9:00am - 9:50am | Seats (Total: 36)<br>IRB 0324<br>CSI 3118 | Discussion |
| 0203 | Christopher Kauffman<br>TuTh 11:00am - 12:15pm<br>MW 9:00am - 9:50am | Seats (Total: 37)<br>IRB 0324<br>CSI 3120 | Discussion |
| 0204 | Christopher Kauffman<br>TuTh 11:00am - 12:15pm<br>MW 10:00am - 10:50am | Seats (Total: 36)<br>IRB 0324<br>CSI 2120 | Discussion |

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| 0205 | Christopher Kauffman<br>TuTh 11:00am - 12:15pm<br>MW 11:00am - 11:50am | Seats (Total: 36)<br>IRB 0324<br>IRB 1207 | Discussion |
| 0206 | Christopher Kauffman<br>TuTh 11:00am - 12:15pm<br>MW 12:00pm - 12:50pm | Seats (Total: 37)<br>IRB 0324<br>IRB 1207 | Discussion |
| 0207 | Christopher Kauffman<br>TuTh 11:00am - 12:15pm<br>MW 1:00pm - 1:50pm | Seats (Total: 36)<br>IRB 0324<br>IRB 1207 | Discussion |
| 0301 | Ilchul Yoon<br>TuTh 12:30pm - 1:45pm<br>MW 8:00am - 8:50am | Seats (Total: 36)<br>SKN 0200<br>IRB 2107 | Discussion |
| 0302 | Ilchul Yoon<br>TuTh 12:30pm - 1:45pm<br>MW 9:00am - 9:50am | Seats (Total: 36)<br>SKN 0200<br>IRB 2107 | Discussion |
| 0303 | Ilchul Yoon<br>TuTh 12:30pm - 1:45pm<br>MW 9:00am - 9:50am | Seats (Total: 36)<br>SKN 0200<br>IRB 2207 | Discussion |
| 0304 | Ilchul Yoon<br>TuTh 12:30pm - 1:45pm<br>MW 10:00am - 10:50am | Seats (Total: 37)<br>SKN 0200<br>IRB 2107 | Discussion |
| 0305 | Ilchul Yoon<br>TuTh 12:30pm - 1:45pm<br>MW 11:00am - 11:50am | Seats (Total: 36)<br>SKN 0200<br>IRB 2107 | Discussion |
| 0306 | Ilchul Yoon<br>TuTh 12:30pm - 1:45pm<br>MW 11:00am - 11:50am | Seats (Total: 36)<br>SKN 0200<br>KEB 1200 | Discussion |
| 0307 | Ilchul Yoon<br>TuTh 12:30pm - 1:45pm<br>MW 12:00pm - 12:50pm | Seats (Total: 36)<br>SKN 0200<br>IRB 2107 | Discussion |

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|---|---|---|---|
| 0401 | Nelson Padua-Perez<br>TuTh 3:30pm - 4:45pm<br>TuTh 8:00am - 8:50am | Seats (Total: 38)<br>ARM 0135<br>CSI 2107 | Discussion |
| 0402 | Nelson Padua-Perez<br>TuTh 3:30pm - 4:45pm<br>TuTh 8:00am - 8:50am | Seats (Total: 38)<br>ARM 0135<br>CSI 2118 | Discussion |
| 0403 | Nelson Padua-Perez<br>TuTh 3:30pm - 4:45pm<br>TuTh 9:30am - 10:20am | Seats (Total: 38)<br>ARM 0135<br>CSI 3120 | Discussion |
| 0404 | Nelson Padua-Perez<br>TuTh 3:30pm - 4:45pm<br>TuTh 2:00pm - 2:50pm | Seats (Total: 38)<br>ARM 0135<br>CSI 2107 | Discussion |
| 0405 | Nelson Padua-Perez<br>TuTh 3:30pm - 4:45pm<br>TuTh 2:00pm - 2:50pm | Seats (Total: 38)<br>ARM 0135<br>CSI 2118 | Discussion |

**CMSC250** **Discrete Structures**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC131; and minimum grade of C- in MATH141. Restriction: Must be in a major within the CMNS-Computer Science department; or must be in Engineering: Computer program; or must be in the Computer Science Minor program; and Permissions of CMSC - Computer Science department.*

*Fundamental mathematical concepts related to computer science, including finite and infinite sets, relations, functions, and propositional logic. Introduction to other techniques, modeling and solving problems in computer science. Introduction to permutations, combinations, graphs, and trees with selected applications.*

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|---|---|---|---|
| 0101 | Mohammad Nayeem Teli<br>TuTh 2:00pm - 3:15pm<br>MW 8:00am - 8:50am | Seats (Total: 38)<br>ESJ 0202<br>CSI 2118 | Discussion |
| 0102 | Mohammad Nayeem Teli<br>TuTh 2:00pm - 3:15pm<br>MW 9:00am - 9:50am | Seats (Total: 38)<br>ESJ 0202<br>CSI 2118 | Discussion |

| | | | |
|---|---|---|---|
| 0103 | Mohammad Nayeem Teli<br>TuTh 2:00pm - 3:15pm<br>MW 10:00am - 10:50am | Seats (Total: 37)<br>ESJ 0202<br>CSI 2118 | Discussion |
| 0104 | Mohammad Nayeem Teli<br>TuTh 2:00pm - 3:15pm<br>MW 10:00am - 10:50am | Seats (Total: 38)<br>ESJ 0202<br>CSI 1121 | Discussion |
| 0105 | Mohammad Nayeem Teli<br>TuTh 2:00pm - 3:15pm<br>MW 3:00pm - 3:50pm | Seats (Total: 38)<br>ESJ 0202<br>CSI 3120 | Discussion |
| 0106 | Mohammad Nayeem Teli<br>TuTh 2:00pm - 3:15pm<br>MW 2:00pm - 2:50pm | Seats (Total: 38)<br>ESJ 0202<br>IRB 2107 | Discussion |
| 0107 | Mohammad Nayeem Teli<br>TuTh 2:00pm - 3:15pm<br>MW 3:00pm - 3:50pm | Seats (Total: 38)<br>ESJ 0202<br>CHM 1224 | Discussion |
| 0108 | Mohammad Nayeem Teli<br>TuTh 2:00pm - 3:15pm<br>MW 4:00pm - 4:50pm | Seats (Total: 38)<br>ESJ 0202<br>CSI 3120 | Discussion |
| 0301 | Fawzi Emad<br>MWF 12:00pm - 12:50pm<br>TuTh 8:00am - 8:50am | Seats (Total: 35)<br>ESJ 0202<br>CSI 3118 | Discussion |
| 0302 | Fawzi Emad<br>MWF 12:00pm - 12:50pm<br>TuTh 9:30am - 10:20am | Seats (Total: 37)<br>ESJ 0202<br>IRB 2207 | Discussion |
| 0303 | Fawzi Emad<br>MWF 12:00pm - 12:50pm<br>TuTh 2:00pm - 2:50pm | Seats (Total: 37)<br>ESJ 0202<br>CSI 3118 | Discussion |
| 0304 | Fawzi Emad<br>MWF 12:00pm - 12:50pm<br>TuTh 3:30pm - 4:20pm | Seats (Total: 37)<br>ESJ 0202<br>CSI 3118 | Discussion |

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|---|---|---|---|
| 0305 | Fawzi Emad<br>MWF 12:00pm - 12:50pm<br>TuTh 3:30pm - 4:20pm | Seats (Total: 35)<br>ESJ 0202<br>CSI 2118 | Discussion |
| 0306 | Fawzi Emad<br>MWF 12:00pm - 12:50pm<br>TuTh 5:00pm - 5:50pm | Seats (Total: 37)<br>ESJ 0202<br>CSI 2118 | Discussion |
| 0307 | Fawzi Emad<br>MWF 12:00pm - 12:50pm<br>TuTh 3:30pm - 4:20pm | Seats (Total: 37)<br>ESJ 0202<br>CHM 1224 | Discussion |
| 0308 | Fawzi Emad<br>MWF 12:00pm - 12:50pm<br>TuTh 2:00pm - 2:50pm | Seats (Total: 37)<br>ESJ 0202<br>CHM 1224 | Discussion |
| 0401 | Fawzi Emad<br>MWF 1:00pm - 1:50pm<br>TuTh 8:00am - 8:50am | Seats (Total: 37)<br>ESJ 0202<br>CSI 3120 | Discussion |
| 0402 | Fawzi Emad<br>MWF 1:00pm - 1:50pm<br>TuTh 9:30am - 10:20am | Seats (Total: 37)<br>ESJ 0202<br>ATL 1114 | Discussion |
| 0403 | Fawzi Emad<br>MWF 1:00pm - 1:50pm<br>TuTh 2:00pm - 2:50pm | Seats (Total: 37)<br>ESJ 0202<br>CSI 3120 | Discussion |
| 0404 | Fawzi Emad<br>MWF 1:00pm - 1:50pm<br>TuTh 3:30pm - 4:20pm | Seats (Total: 37)<br>ESJ 0202<br>CSI 3120 | Discussion |
| 0405 | Fawzi Emad<br>MWF 1:00pm - 1:50pm<br>TuTh 3:30pm - 4:20pm | Seats (Total: 37)<br>ESJ 0202<br>CSI 2107 | Discussion |
| 0406 | Fawzi Emad<br>MWF 1:00pm - 1:50pm<br>TuTh 5:00pm - 5:50pm | Seats (Total: 35)<br>ESJ 0202<br>CSI 2120 | Discussion |

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|---|---|---|---|
| 0407 | Fawzi Emad<br>MWF 1:00pm - 1:50pm<br>TuTh 11:00am - 11:50am | Seats (Total: 37)<br>ESJ 0202<br>IRB 2107 | <br><br>Discussion |
| 0408 | Fawzi Emad<br>MWF 1:00pm - 1:50pm<br>TuTh 2:00pm - 2:50pm | Seats (Total: 37)<br>ESJ 0202<br>EGR 0135 | <br><br>Discussion |

**CMSC298A** **Special Topics in Computer Science**

(Perm req)

*A course designed to allow a lower level student to pursue a specialized topic or project.*

**Contact department for information to register for this course.**

**CMSC320** **Introduction to Data Science**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC216 and CMSC250. Restriction: Permission of CMNS-Computer Science department. Credit only granted for: CMSC320, DATA320 or STAT426.*

*An introduction to the data science pipeline, i.e., the end-to-end process of going from unstructured, messy data to knowledge and actionable insights. Provides a broad overview of several topics including statistical data analysis, basic data mining and machine learning algorithms, large-scale data management, cloud computing, and information visualization.*

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|---|---|---|
| 0101 | Maksym Morawski<br>TuTh 9:30am - 10:45am | Seats (Total: 295)<br>ESJ 0202 |
| 0201 | Fardina Alam<br>TuTh 3:30pm - 4:45pm | Seats (Total: 295)<br>IRB 0324 |

**CMSC330** **Organization of Programming Languages**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC250 and CMSC216. Restriction: Must be in a major within the CMNS-Computer Science department; or must be in the Computer Science Minor program; or must be in Engineering: Computer program; and Permission of CMSC - Computer Science department.*

*A study of programming languages, including their syntax, semantics, and implementation. Several different models of languages are discussed, including dynamic, scripting (e.g., Ruby, Python) functional (e.g., OCaml, Haskell, Scheme), and memory safe systems programming (e.g., Rust). Explores language features such as formal syntax, scoping and binding of variables, higher-order programming, typing, and type polymorphism. Introduces finite automata, context free grammar, parsing, lambda calculus, and basics of security attacks and software security.*

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|---|---|---|---|
| 0101 | Cliff Bakalian<br>TuTh 12:30pm - 1:45pm<br>F 9:00am - 9:50am | Seats (Total: 36)<br>IRB 0324<br>CSI 1121 | Discussion |
| 0102 | Cliff Bakalian<br>TuTh 12:30pm - 1:45pm<br>F 10:00am - 10:50am | Seats (Total: 36)<br>IRB 0324<br>CSI 1121 | Discussion |
| 0103 | Cliff Bakalian<br>TuTh 12:30pm - 1:45pm<br>F 11:00am - 11:50am | Seats (Total: 36)<br>IRB 0324<br>CSI 1121 | Discussion |
| 0104 | Cliff Bakalian<br>TuTh 12:30pm - 1:45pm<br>F 12:00pm - 12:50pm | Seats (Total: 36)<br>IRB 0324<br>CSI 1121 | Discussion |
| 0105 | Cliff Bakalian<br>TuTh 12:30pm - 1:45pm<br>F 1:00pm - 1:50pm | Seats (Total: 36)<br>IRB 0324<br>CSI 1121 | Discussion |
| 0106 | Cliff Bakalian<br>TuTh 12:30pm - 1:45pm<br>F 1:00pm - 1:50pm | Seats (Total: 36)<br>IRB 0324<br>CSI 1122 | Discussion |
| 0107 | Cliff Bakalian<br>TuTh 12:30pm - 1:45pm<br>F 2:00pm - 2:50pm | Seats (Total: 36)<br>IRB 0324<br>CSI 2107 | Discussion |
| 0108 | Cliff Bakalian<br>TuTh 12:30pm - 1:45pm<br>F 3:00pm - 3:50pm | Seats (Total: 36)<br>IRB 0324<br>CSI 1121 | Discussion |
| 0201 | Cliff Bakalian<br>TuTh 2:00pm - 3:15pm<br>F 9:00am - 9:50am | Seats (Total: 36)<br>IRB 0324<br>CSI 1122 | Discussion |
| 0202 | Cliff Bakalian<br>TuTh 2:00pm - 3:15pm<br>F 10:00am - 10:50am | Seats (Total: 36)<br>IRB 0324<br>CSI 1122 | Discussion |

| | | | |
|---|---|---|---|
| 0203 | Cliff Bakalian<br>TuTh 2:00pm - 3:15pm<br>F 10:00am - 10:50am | Seats (Total: 36)<br>IRB 0324<br>CSI 2107 | Discussion |
| 0204 | Cliff Bakalian<br>TuTh 2:00pm - 3:15pm<br>F 11:00am - 11:50am | Seats (Total: 36)<br>IRB 0324<br>CSI 1122 | Discussion |
| 0205 | Cliff Bakalian<br>TuTh 2:00pm - 3:15pm<br>F 12:00pm - 12:50pm | Seats (Total: 36)<br>IRB 0324<br>CSI 1122 | Discussion |
| 0206 | Cliff Bakalian<br>TuTh 2:00pm - 3:15pm<br>F 1:00pm - 1:50pm | Seats (Total: 36)<br>IRB 0324<br>CSI 2107 | Discussion |
| 0207 | Cliff Bakalian<br>TuTh 2:00pm - 3:15pm<br>F 2:00pm - 2:50pm | Seats (Total: 36)<br>IRB 0324<br>CSI 2118 | Discussion |
| 0208 | Cliff Bakalian<br>TuTh 2:00pm - 3:15pm<br>F 3:00pm - 3:50pm | Seats (Total: 36)<br>IRB 0324<br>CSI 2107 | Discussion |
| 0301 | Anwar Mamat<br>MW 2:00pm - 3:15pm<br>F 11:00am - 11:50am | Seats (Total: 35)<br>HJP 0226<br>CSI 2107 | Discussion |
| 0302 | Anwar Mamat<br>MW 2:00pm - 3:15pm<br>F 12:00pm - 12:50pm | Seats (Total: 35)<br>HJP 0226<br>CSI 2107 | Discussion |
| 0303 | Anwar Mamat<br>MW 2:00pm - 3:15pm<br>F 12:00pm - 12:50pm | Seats (Total: 35)<br>HJP 0226<br>CSI 2118 | Discussion |
| 0304 | Anwar Mamat<br>MW 2:00pm - 3:15pm<br>F 1:00pm - 1:50pm | Seats (Total: 35)<br>HJP 0226<br>CSI 2118 | Discussion |

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|---|---|---|---|
| 0305 | Anwar Mamat<br>MW 2:00pm - 3:15pm<br>F 1:00pm - 1:50pm | Seats (Total: 35)<br>HJP 0226<br>CSI 2120 | <br><br>Discussion |
| 0306 | Anwar Mamat<br>MW 2:00pm - 3:15pm<br>F 2:00pm - 2:50pm | Seats (Total: 35)<br>HJP 0226<br>CSI 2120 | <br><br>Discussion |
| 0307 | Anwar Mamat<br>MW 2:00pm - 3:15pm<br>F 2:00pm - 2:50pm | Seats (Total: 35)<br>HJP 0226<br>CSI 1121 | <br><br>Discussion |

**CMSC335** **Web Application Development with JavaScript**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC216 and CMSC250. Restriction: Permission of CMNS-Computer Science Department. Credit only granted for: CMSC389N or CMSC335. Formerly: CMSC389N.*

*Provides an introduction to modern ways of developing Web Applications/Services using JavaScript for both front-end and back-end. The course covers topics on fundamental JavaScript language constructs, server-side JavaScript, back-end data persistence, and client-side JavaScript to build Web Applications that interact with Web services and back-end databases.*

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|---|---|---|
| 0101 | Nelson Padua-Perez<br>TuTh 12:30pm - 1:45pm | Seats (Total: 325)<br>ESJ 0202 |
| 0201 | Nelson Padua-Perez<br>TuTh 8:00am - 9:15am | Seats (Total: 200)<br>IRB 0324 |

**CMSC351** **Algorithms**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC250 and CMSC216. Restriction: Must be in a major within the CMNS-Computer Science department; or must be in Engineering: Computer program; or must be in the Computer Science Minor program; and Permission from the CMSC - Computer Science department.*

*A systematic study of the complexity of some elementary algorithms related to sorting, graphs and trees, and combinatorics. Algorithms are analyzed using mathematical techniques to solve recurrences and summations.*

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|---|---|---|
| 0101 | Justin Wyss-Gallifent<br>MWF 8:00am - 8:50am | Seats (Total: 290)<br>IRB 0324 |

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|---|---|---|
| 0201 | Clyde Kruskal<br>MWF 11:00am - 11:50am | Seats (Total: 95)<br>IRB 1116 |
| 0301 | Herve Franceschi, Ting Jiang<br>MW 4:00pm - 5:15pm | Seats (Total: 200)<br>IRB 0324 |
| 0401 | Herve Franceschi<br>MWF 1:00pm - 1:50pm | Seats (Total: 135)<br>CSI 1115 |

**CMSC388J** **Special Topics in Computer Science; Building Secure Web Applications**

(Perm req)

*Seminar courses that allow students to pursue new and emerging areas of Computer Science.*

Prerequisite: Minimum grade of C- in CMSC216 and CMSC250; and permission of CMNS-Computer Science department. Explores tools such as Python, Flask, Django, MongoDB, Svelte, and React.

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|---|---|---|
| 0101 | Michael Marsh<br>F 3:00pm - 3:50pm | Seats (Total: 55)<br>CSI 3117 |

**CMSC389O** **Special Topics in Computer Science; The Coding Interview**

(Perm req)

*Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.*

Prerequisite: Minimum grade of C- in CMSC216 and CMSC250; and permission of CMNS-Computer Science department. Technical interviewing is a critical skill for acquiring internships and jobs. Students will gain a comprehensive, practical introduction to technical interviews. Students will be introduced to basic topics such as Big O and String Manipulation and later move into more complex topicssuch as Graphs and Dynamic Programming. Most in-class time will bespenton mock interviews to give real interview practice. The course facilitators are experienced in interviewing and have received internship/job offers from companies like Meta, Optiver, Bloomberg, Amazon, Apple, Microsoft, Databricks, Capital One, and more.

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|---|---|---|
| 0101 | Thomas Goldstein<br>F 11:00am - 11:50am | Seats (Total: 30)<br>IRB 2107 |
| 0201 | Thomas Goldstein<br>F 12:00pm - 12:50pm | Seats (Total: 30)<br>IRB 2107 |
| 0301 | Thomas Goldstein<br>F 1:00pm - 1:50pm | Seats (Total: 30)<br>IRB 2107 |

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|---|---|---|
| 0401 | Thomas Goldstein<br>F 2:00pm - 2:50pm | Seats (Total: 30)<br>IRB 2107 |
| 0501 | Thomas Goldstein<br>F 3:00pm - 3:50pm | Seats (Total: 30)<br>IRB 2107 |

**CMSC389P** **Special Topics in Computer Science; Mastering the PM Interview**

(Perm req)

*Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.*

Prerequisite: Minimum grade of C- in CMSC216 and CMSC250; and permission of CMNS-Computer Science department. Prepares students for PM interviews in the technology industry. The class will be a combination of lectures and in-class activities that will provide hands-on practice for PM roles. We will begin with interview questions involving behavioral and technical concepts, and transition tomore complex PM-specific topics including product design, analytical, and case questions.

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|---|---|---|
| 0101 | Huaishu Peng<br>F 11:00am - 11:50am | Seats (Total: 30)<br>CSI 2120 |

**CMSC390** **Honors Paper**

(Perm req)

*Restriction: Must be admitted to the Computer Science Honors Program.*

*Special study or research directed toward preparation of honors paper.*

**Contact department for information to register for this course.**

**CMSC396H** **Computer Science Honors Seminar**

(Perm req)

*Prerequisite: Must have admission into Computer Science Departmental Honors Program. Restriction: Permission of CMNS-Computer Science department.*

*Overview of computer science research activities, techniques, and tools. Diverse research areas will be covered, including systems, networks, artificial intelligence, human-computer interaction, software engineering, graphics, vision, and theory.*

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|---|---|---|
| 0101 | Dave Levin<br>W 11:00am - 11:50am | Seats (Total: 80)<br>CSI 2117 |

**CMSC398L** **Special Topics in Computer Science; Introduction to Competitive Programming**

(Perm req)

*Seminar courses that allow students to pursue new and emerging areas of Computer Science.*

Prerequisite: Minimum grade of C- in CMSC216 and CMSC250; and permission of CMNS-Computer Science department. Covers most of the basic techniques and algorithms that are used in competitive programming. Topics include C++ STL, greedy, dynamic programming, divide and conquer, graph algorithms, and data structures. Students will learn different algorithmic techniques and apply these concepts to solve interesting programming problems in practice.

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|---|---|---|
| 0101 | Laxman Dhulipala<br>F 11:00am - 11:50am | Seats (Total: 30)<br>IRB 1207 |

**CMSC398M** **Special Topics in Computer Science; Introduction to Product Design with Figma**

(Perm req)

*Seminar courses that allow students to pursue new and emerging areas of Computer Science.*

Prerequisite: Minimum grade of C- in CMSC216 and CMSC250 or permission o f instructor; and permission of CMNS-Computer Science department. An exploration into the world of Figma! Figma is a popular collaborative design tool used by many developers for brainstorming, proof of concepts, and website/application design. We will be exploring the various capabilities of Figma, and how we can create a website or mobile application from a design made on Figma. Students will learn principles of design, create mockups, and build their own website/mobileapp that will look great for resumes and portfolios.

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|---|---|---|
| 0101 | Cliff Bakalian<br>W 12:00pm - 12:50pm | Seats (Total: 40)<br>CSI 2117 |

**CMSC398N** **Special Topics in Computer Science; Ethics in Computer Science**

(Perm req)

*Seminar courses that allow students to pursue new and emerging areas of Computer Science.*

Prerequisite: Minimum grade of C- in CMSC216 and CMSC250 or permission of instructor; and permission of CMNS-Computer Science department. Must not have completed DATA200. Introduces students to the different aspects of ethics within Computer Science. There will be 14 different topics, each one focusing on a different issue regarding ethics in the tech industry. Students will learn what to do inthese situations, understand how these issues impact society, and participate in in-class discussions about these topics. After taking this course students should be able to recognize these issues in the real world and be able to use their knowledge to try and better the field.

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|---|---|---|
| 0101 | Elias Gonzalez<br>F 10:00am - 10:50am | Seats (Total: 30)<br>CSI 3120 |

**CMSC398R** **Special Topics in Computer Science; Binary Exploitation**

(Perm req)

*Seminar courses that allow students to pursue new and emerging areas of Computer Science.*

Prerequisite: Minimum grade of C- in CMSC250 and CMSC216; and permission of CMNS-Computer Science department. An introduction to exploiting common vulnerabilities in compiled applications. Topics include an overview of C, intro to x86 assembly, buffer overflows on stack and heap, format string bugs, heap exploitation, and other special topics (kernel/browser/blockchain). Students will be able to write exploits for all the bugs learned in class, and secure their own applications.

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|---|---|---|
| 0101 | Tudor Dumitras<br>F 4:00pm - 4:50pm | Seats (Total: 30)<br>IRB 2107 |

**CMSC398T** **Special Topics in Computer Science; Beyond Aesthetics: Accessible Frontend Design**

(Perm req)

*Seminar courses that allow students to pursue new and emerging areas of Computer Science.*

Prerequisite: Minimum grade of C- in CMSC216 and CMSC250; and permission of CMNS-Computer Science department. Gives students familiarity with technologies and skills to build a modern website giving adequate considerations to inclusive design, emerging frameworks, design trends and user-experience. By the end of this course students will have a polished portfolio website demonstrating their skill-set and projects to peers and employers alike. Technologies Covered: Next.js, Typescript, UI Design Fundamentals and UXDeepdive with emphasis on Accessibility and Inclusion, Low and Medium Fidelity Mockups with Adobe Suite/Figma, HTML5, CSS, Tailwind CSS, Routing, Search Engine Optimization, Rendering Models, Deploying a Website (Hosting, DNSManagement, Registering a Domain, etc.)

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|---|---|---|
| 0101 | Evan Golub<br>F 2:00pm - 2:50pm | Seats (Total: 30)<br>CSI 3120 |

**CMSC398U** **Special Topics in Computer Science; Secure Multiparty Computation**

(Perm req)

*Seminar courses that allow students to pursue new and emerging areas of Computer Science.*

Prerequisites: Minimum grade of C- or better in CMSC216, CMSC250, and CMSC351; and permission of CMNS-Computer Science department. Recommended: Minimum grade of C- in CMSC456. Introduces students to the rapidly developing field of secure multi-party computation, where parties can compute a function of their private inputs without the need for a third party.

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|---|---|---|
| 0101 | Ian Miers<br>F 11:00am - 11:50am | Seats (Total: 30)<br>CSI 3120 |

**CMSC398V** **Special Topics in Computer Science; Introduction to React**

(Perm req)

*Seminar courses that allow students to pursue new and emerging areas of Computer Science.*

Prerequisites: Minimum grade of C- in CMSC335, and permission of CMNS-Computer Science department. Students will delve into the fundamentals of React.js, a powerful JavaScript library for building user interfaces. The course is designed for students to develop practical skills in building efficient and scalable web applications. By the end of the semester, students will have created multiple small projects to solidify their fundamentals in React. The overall goal is for students to become proficient in React concepts such as components, state management, and hooks, as well as related development tools and practices.

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|---|---|---|---|
| 0101 | Clyde Kruskal<br>F 12:00pm - 12:50pm | Seats (Total: 30)<br>CSI 3118 | |

**CMSC411** **Computer Systems Architecture**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC330; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department. Credit only granted for: ENEE446 or CMSC411.*

*Input/output processors and techniques. Intra-system communication, buses, caches. Addressing and memory hierarchies. Microprogramming, parallelism, and pipelining.*

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|---|---|---|---|
| 0101 | Ilchul Yoon<br>MW 2:00pm - 3:15pm | Seats (Total: 88)<br>CSI 2117 | |

**CMSC412** **Operating Systems**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; and 1 course with a minimum grade of C- from (CMSC414, CMSC417, CMSC420, CMSC430, CMSC433, CMSC435, ENEE440, ENEE457). Restriction: Permission of CMNS-Computer Science department; or must be in one of the following programs (Computer Science (Master's); Computer Science (Doctoral)). Credit only granted for: CMSC412 or ENEE447.*

*A hands-on introduction to operating systems, including topics in: multiprogramming, communication and synchronization, memory management, IO subsystems, and resource scheduling polices. The laboratory component consists of constructing a small kernel, including functions for device IO, multi-tasking, and memory management.*

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|---|---|---|---|
| 0101 | Ashok Agrawala<br>TuTh 11:00am - 12:15pm<br>MW 10:00am - 10:50am | Seats (Total: 40)<br>CSI 2117<br>IRB 2207 | <br><br>Discussion |
| 0102 | Ashok Agrawala<br>TuTh 11:00am - 12:15pm<br>MW 11:00am - 11:50am | Seats (Total: 40)<br>CSI 2117<br>CSI 2107 | <br><br>Discussion |

**CMSC414** **Computer and Network Security**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department. Credit only granted for: CMSC414, ENEE459C, or ENEE457.*

*An introduction to the topic of security in the context of computer systems and networks. Identify, analyze, and solve network-related security problems in computer systems. Fundamentals of number theory, authentication, and encryption technologies, as well as the practical problems that have to be solved in order to make those technologies workable in a networked environment, particularly in the wide-area Internet environment.*

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|---|---|---|
| 0101 | Michael Marsh<br>TuTh 12:30pm - 1:45pm | Seats (Total: 145)<br>CSI 1115 |
| 0201 | Michael Marsh<br>TuTh 2:00pm - 3:15pm | Seats (Total: 145)<br>CSI 1115 |

**CMSC416** **Introduction to Parallel Computing**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; or permission of instructor. Restriction: Permission of CMNS-Computer Science department. Jointly offered with: CMSC616. Credit only granted for: CMSC416, CMSC498X, CMSC616, or CMSC818X. Formerly: CMSC498X.*

*Introduction to parallel computing. Topics include programming for shared memory and distributed memory parallel architectures, and fundamental issues in design, development, and performance analysis of parallel programs.*

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|---|---|---|
| 0101 | Alan Sussman<br>TuTh 3:30pm - 4:45pm | Seats (Total: 100)<br>IRB 0318 |
| 0201 | Abhinav Bhatele<br>TuTh 11:00am - 12:15pm | Seats (Total: 72)<br>IRB 1116 |

**CMSC417** **Computer Networks**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.*

*Computer networks and architectures. The OSI model including discussion and examples of various network layers. A general introduction to existing network protocols. Communication protocol specification, analysis, and testing.*

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|---|---|---|
| 0101 | Samrat Bhattacharjee<br>TuTh 12:30pm - 1:45pm | Seats (Total: 88)<br>CSI 3117 |

**CMSC420** **Advanced Data Structures**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.*

*Description, properties, and storage allocation functions of data structures including balanced binary trees, B-Trees, hash tables, skiplists, tries, KD-Trees and Quadtrees. Algorithms for manipulating structures. Applications from areas such as String Processing, Computer Graphics, Information Retrieval, Computer Networks, Computer Vision, and Operating Systems.*

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|---|---|---|
| 0101 | Justin Wyss-Gallifent<br>MWF 10:00am - 10:50am | Seats (Total: 145)<br>CSI 1115 |
| 0201 | Justin Wyss-Gallifent<br>MWF 11:00am - 11:50am | Seats (Total: 145)<br>CSI 1115 |
| 0301 | Narayanaswamy Narayanaswamy<br>TuTh 9:30am - 10:45am | Seats (Total: 145)<br>CSI 1115 |

**CMSC421** **Introduction to Artificial Intelligence**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.*

*Introduces a range of ideas and methods in AI, varying semester to semester but chosen largely from: automated heuristic search, planning, games, knowledge representation, logical and statistical inference, learning, natural language processing, vision, robotics, cognitive modeling, and intelligent agents. Programming projects will help students obtain a hands-on feel for various topics.*

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|---|---|---|
| 0101 | William Regli<br>TuTh 11:00am - 12:15pm | Seats (Total: 145)<br>CSI 1115 |
| 0201 | William Regli<br>MW 3:30pm - 4:45pm | Seats (Total: 145)<br>CSI 1115 |

**CMSC422** **Introduction to Machine Learning**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC320, CMSC330, and CMSC351; and 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461); and permission of CMNS-Computer Science department.*

*Machine Learning studies representations and algorithms that allow machines to improve their performance on a task from experience. This is a broad overview of existing methods for machine learning and an introduction to adaptive systems in general. Emphasis is given to practical aspects of machine learning and data mining.*

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|---|---|---|
| 0101 | Mohammad Nayeem Teli<br>TuTh 3:30pm - 4:45pm | Seats (Total: 204)<br>ESJ 0202 |
| 0201 | Heng Huang<br>TuTh 12:30pm - 1:45pm | Seats (Total: 100)<br>IRB 0318 |

**CMSC423** **Bioinformatic Algorithms, Databases, and Tools**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.*

*An introduction to the main algorithms, databases, and tools used in bioinformatics. Topics may include assembly and analysis of genome sequences, reconstructing evolutionary histories, predicting protein structure, and clustering of biological data. Use of scripting languages to perform analysis tasks on biological data. No prior knowledge of biology is assumed.*

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|---|---|---|
| 0101 | Robert Patro<br>TuTh 11:00am - 12:15pm | Seats (Total: 54)<br>IRB 2207 |

**CMSC424** **Database Design**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC351 and CMSC330; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.*

*Students are introduced to database systems and motivates the database approach as a mechanism for modeling the real world. An in-depth coverage of the relational model, logical database design, query languages, and other database concepts including query optimization, concurrency control; transaction management, and log based crash recovery. Distributed and Web database architectures are also discussed.*

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|---|---|---|
| 0101 | Peter Keleher<br>TuTh 9:30am - 10:45am | Seats (Total: 80)<br>IRB 0318 |

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|---|---|---|
| 0201 | Daniel Abadi | Seats (Total: 80) |
| | MW 2:00pm - 3:15pm | CSI 3117 |

**CMSC425** **Game Programming**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC330 and CMSC351. Restriction: Permission of CMNS-Computer Science department.*

*An introduction to the principles and practice of computer game programming and design. This includes an introduction to game hardware and systems, the principles of game design, object and terrain modeling, game physics, artificial intelligence for games, networking for games, rendering and animation, and aural rendering. Course topics are reinforced through the design and implementation of a working computer game.*

| | | |
|---|---|---|
| 0101 | Stevens Miller | Seats (Total: 86) |
| | TuTh 2:00pm - 3:15pm | CSI 2117 |

**CMSC426** **Computer Vision**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC330 and CMSC351 and 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461); or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program; or permission of the instructor. Restriction: Permission of CMNS-Computer Science department.*

*An introduction to basic concepts and techniques in computervision. This includes low-level operations such as image filtering and edge detection, 3D reconstruction of scenes using stereo and structure from motion, and object detection, recognition and classification.*

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|---|---|---|
| 0101 | John Aloimonos | Seats (Total: 110) |
| | TuTh 12:30pm - 1:45pm | CHE 2110 |

**CMSC430** **Introduction to Compilers**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.*

*Topics include lexical analysis, parsing, intermediate representations, program analysis, optimization, and code generation.*

| | | |
|---|---|---|
| 0101 | David Van Horn | Seats (Total: 240) |
| | TuTh 2:00pm - 3:15pm | LEF 2205 |

**CMSC433** **Programming Language Technologies and Paradigms**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC330; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.*

*Programming language technologies (e.g., object-oriented programming), their implementations and use in software design and implementation.*

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|---|---|---|
| 0101 | Anwar Mamat<br>MW 3:30pm - 4:45pm | Seats (Total: 200)<br>HJP 0226 |

**CMSC434** **Introduction to Human-Computer Interaction**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.*

*Assess usability by quantitative and qualitative methods. Conduct task analyses, usability tests, expert reviews, and continuing assessments of working products by interviews, surveys, and logging. Apply design processes and guidelines to develop professional quality user interfaces. Build low-fidelity paper mockups, and a high-fidelity prototype using contemporary tools such as graphic editors and a graphical programming environment (eg: Visual Basic, Java).*

| | | |
|---|---|---|
| 0101 | Evan Golub<br>TuTh 11:00am - 12:15pm | Seats (Total: 54)<br>IRB 1207 |
| 0201 | Evan Golub<br>TuTh 12:30pm - 1:45pm | Seats (Total: 54)<br>IRB 1207 |
| 0301 | Evan Golub<br>TuTh 2:00pm - 3:15pm | Seats (Total: 54)<br>IRB 1207 |

**CMSC435** **Software Engineering**

(Perm req)

*Prerequisite: 1 course with a minimum grade of C- from (CMSC412, CMSC417, CMSC420, CMSC430, CMSC433, ENEE447); and permission of CMNS-Computer Science department.*

*State-of-the-art techniques in software design and development. Laboratory experience in applying the techniques covered. Structured design, structured programming, top-down design and development, segmentation and modularization techniques, iterative enhancement, design and code inspection techniques, correctness, and chief-programmer teams. The development of a large software project.*

| | | |
|---|---|---|
| 0101 | James Purtilo<br>TuTh 12:30pm - 1:45pm | Seats (Total: 46)<br>CSI 1122 |

**CMSC436** **Programming Handheld Systems**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program. Restriction: Permission of CMNS-Computer Science department.*

*Fundamental principles and concepts that underlie the programming of handheld systems, such as mobile phones, personal digital assistants, and tablet computers. Particular emphasis will be placed on concepts such as limited display size, power, memory and CPU speed; and new input modalities, where handheld systems differ substantially from non-handheld systems, and thus require special programming tools and approaches. Students will apply these concepts and principles in the context of an existing handset programming platform.*

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|---|---|---|
| 0101 | Michael Marsh<br>TuTh 9:30am - 10:45am<br>*Course will be based on the cross-platform Flutter development kit. (No specific mobile hardware will be required -- students can use simulators).* | Seats (Total: 96)<br>IRB 1116 |
| 0201 | Herve Franceschi<br>MW 2:00pm - 3:15pm<br>*Course will be based on the Android platform. (No Android hardware is required -- students can use simulators).* | Seats (Total: 145)<br>CSI 1115 |

**CMSC451** **Design and Analysis of Computer Algorithms**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC351; and permission of CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's)) program.*

*Fundamental techniques for designing efficient computer algorithms, proving their correctness, and analyzing their complexity. General topics include graph algorithms, basic algorithm design paradigms (such as greedy algorithms, divide-and-conquer, and dynamic programming), network flows, NP-completeness, and other selected topics in algorithms.*

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|---|---|---|
| 0101 | Laxman Dhulipala<br>TuTh 8:00am - 9:15am | Seats (Total: 100)<br>IRB 0318 |
| 0201 | Andrew Childs<br>TuTh 2:00pm - 3:15pm | Seats (Total: 95)<br>IRB 0318 |

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|---|---|---|
| 0301 | Clyde Kruskal<br>TuTh 2:00pm - 3:15pm | Seats (Total: 50)<br>PHY 1201 |

**CMSC456** **Cryptography**

(Perm req)

*Prerequisite: (CMSC106, CMSC131, or ENEE150; or equivalent programming experience); and (2 courses from (CMSC330, CMSC351, ENEE324, or ENEE380); or any one of these courses and a 400-level MATH course, or two 400-level MATH courses); and Permission of CMNS-Mathematics department or permission of instructor . Cross-listed with: MATH456, ENEE456. Credit only granted for: MATH456, CMSC456 or ENEE456.*

*The theory, application, and implementation of mathematical techniques used to secure modern communications. Topics include symmetric and public-key encryption, message integrity, hash functions, block-cipher design and analysis, number theory, and digital signatures.*

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|---|---|---|
| 0101 | Todd Rowland<br>MWF 12:00pm - 12:50pm | Seats (Total: 55)<br>CSI 1115 |
| 0301 | Allan Yashinski<br>MWF 12:00pm - 12:50pm | Seats (Total: 40)<br>BPS 1238 |

**CMSC460** **Computational Methods**

(Perm req)

*Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461); and 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (CMSC106, CMSC131); and minimum grade of C- in MATH246. Cross-listed with: AMSC460. Credit only granted for: AMSC460, AMSC466, CMSC460, or CMSC466.*

*Basic computational methods for interpolation, least squares, approximation, numerical quadrature, numerical solution of polynomial and transcendental equations, systems of linear equations and initial value problems for ordinary differential equations. Emphasis on methods and their computational properties rather than their analytic aspects. Intended primarily for students in the physical and engineering sciences.*

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|---|---|---|
| 0101 | Tobias von Petersdorff<br>MWF 1:00pm - 1:50pm | Seats (Total: 33)<br>MTH 0304 |
| 0201 | Deep Ray<br>TuTh 9:30am - 10:45am | Seats (Total: 33)<br>MTH 0305 |
| 0301 | Haizhao Yang<br>TuTh 12:30pm - 1:45pm | Seats (Total: 33)<br>MTH 0103 |

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|---|---|---|
| 0401 | Howard Elman | Seats (Total: 33) |
| | TuTh 2:00pm - 3:15pm | CSI 1121 |

**CMSC466** **Introduction to Numerical Analysis I**

(Perm req)

*Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461); and 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (CMSC106, CMSC131); and minimum grade of C- in MATH410. Cross-listed with: AMSC466. Credit only granted for: AMSC460, CMSC460, AMSC466, or CMSC466.*

*Floating point computations, direct methods for linear systems, interpolation, solution of nonlinear equations.*

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| 0101 | Dionisios Margetis | Seats (Total: 25) |
| | TuTh 9:30am - 10:45am | MTH 0105 |

**CMSC470** **Introduction to Natural Language Processing**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC320, CMSC330, and CMSC351; and 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461). Restriction: Permission of CMNS-Computer Science department.*

*Introduction to fundamental techniques for automatically processing and generating natural language with computers. Machine learning techniques, models, and algorithms that enable computers to deal with the ambiguity and implicit structure of natural language. Application of these techniques in a series of assignments designed to address a core application such as question answering or machine translation.*

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|---|---|---|
| 0101 | Triet Le | Seats (Total: 80) |
| | MW 3:30pm - 4:45pm | ATL 2324 |

**CMSC471** **Introduction to Data Visualization**

(Perm req)

*Prerequisite: Minimum grade of C- in CMSC330 and CMSC351; and permission of CMNS-Computer Science Department. Restriction: Permission of the CMNS-Computer Science Department. Credit only granted for: CMSC471 or CMSC498O. Formerly: CMSC498O.*

*Datasets are becoming increasingly large and complex, requiring intuitive ways to explore and interpret them quickly and efficiently. In this case, a picture is worth a thousand words: visualizations enable us to transform data into images that are easier to understand and reason about, compared to raw numbers and raw text. Visualizations are critical tools in externalizing and organizing our knowledge and insights, whether to explore collected datasets to improve our understanding of the physical world, to assess and debug analysis/experimental workflows, or to present new and interesting results to diverse audiences. In this course we will study techniques and algorithms for creating effective visualizations based on principles from graphic design, perceptual psychology, and cognitive science. Students will learn how to design and build interactive visualizations for the web, using the D3.js (Data-Driven Documents) framework.*

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|---|---|---|
| 0101 | Zhicheng Liu | Seats (Total: 100) |
| | MW 2:00pm - 3:15pm | IRB 0318 |

**CMSC472** **Introduction to Deep Learning**

(Perm req)

*Prerequisite: Minimum grade of C- or higher in CMSC330 and CMSC351; and 1 course with a minimum grade of C- or higher from (MATH240, MATH461). Restriction: Permission of the CMNS-Computer Science department. Or must be in the (Computer Science (Doctoral), Computer Science (Master's) program. Credit only granted for: CMSC498L or CMSC472. Formerly: CMSC498L.*

*An introduction to deep learning, a machine learning technique, as well as its applications to a variety of domains. Provides a broad overview of deep learning concepts including neural networks, convolutional neural networks, recurrent neural networks, generative models, and deep reinforcement learning, and an intuitive introduction to basics of machine learning such as simple models, learning paradigms, optimization, overfitting, importance of data, and training caveats.*

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|---|---|---|
| 0101 | Abhinav Shrivastava | Seats (Total: 96) |
| | TuTh 2:00pm - 3:15pm | IRB 1116 |

**CMSC473** **Capstone in Machine Learning**

(Perm req)

*Prerequisite: Minimum grade of C- or higher in CMSC421 or CMSC422. Recommended: Background or exposure to machine learning topics is strongly encouraged. Restriction: Permission of instructor and Permission of CMSC - Computer Science department. Credit only granted for: CMSC498P or CMSC473. Formerly: CMSC498P. Additional information: Students will be paired with project advisors from the UMD faculty or alternatively, an industry advisor. Students are encouraged to plan for projects results that can be published at academic conferences or will impact academic research.*

*Semester-long project course in which each student will identify and carry out a project related to machine learning, with the goal of publishing a research paper or software tool.*

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|---|---|---|
| 0101 | Thomas Goldstein | Seats (Total: 28) |
| | TuTh 2:00pm - 3:15pm | CSI 3117 |

**CMSC475** **Combinatorics and Graph Theory**

(Perm req)

*Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461); and 1 course with a minimum grade of C- from (MATH241, MATH340). And permission of CMNS-Computer Science department; or permission of CMNS-Mathematics department. Cross-listed with MATH475 .*

*General enumeration methods, difference equations, generating functions. Elements of graph theory, matrix representations of graphs, applications of graph theory to transport networks, matching theory and graphical algorithms.*

Credit only granted for MATH475 or CMSC475.

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| 0101 | Wiseley Wong | Seats (Total: 33) |
| | MWF 1:00pm - 1:50pm | CHM 2201 |

**CMSC498A** **Selected Topics in Computer Science**

(Perm req)

*An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed*

An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. Credit according to work completed.

**Contact department for information to register for this course.**

**CMSC498B** **Selected Topics in Computer Science; Cloud Computing**

(Perm req)

*An individualized course designed to allow a student or students to pursue a selected topic not taught as a part of the regular course offerings under the supervision of a Computer Science faculty member. In addition, courses dealing with topics of special interest and/or new emerging areas of computer science will be offered with this number. Selected topics courses will be structured very much like a regular course with homework, project and exams. Credit according to work completed*

Prerequisites: Minimum grade of C- in CMSC330 and CMSC351. Explores several fundamental topics of cloud computing, including IaaS (e.g., Open Stack, Kubernetes), key big data platforms, and data center networking. The course combines group reading and discussion of influential publications in the field, lectures by the instructor, talksby invited speakers, and a large project. Students will be a part of an agile development team, with extensive experience with GitHub, agile tools, and various technologies. Each course project is solicited from open-source community and will be mentored by an industry leader and/or engineer, or a senior graduate student/postdoc.

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|---|---|---|
| 0101 | Zaoxing Liu<br>TuTh 3:30pm - 4:45pm | Seats (Total: 42)<br>IRB 2107 |

**CMSC499A** **Independent Undergraduate Research**

(Perm req)

*Students are provided with an opportunity to participate in a computer science research project under the guidance of a faculty advisor. Format varies. Students and supervising faculty member will agree to a research plan which must be approved by the department. As part of each research plan, students should produce a final paper delineating their contribution to the field.*

Students are provided with an opportunity to participate in a computer science research project under the guidance of a faculty advisor. Format varies. Students and supervising faculty member will agree to a research plan which must be approved by the department. As part of each research plan, students should produce a final paper delineating their contribution to the field.

**Contact department for information to register for this course.**

**CMSC614** **Computer and Network Security**

*Recommended: Knowledge of C programming. Restriction: Must be in the Computer Science Master's or Doctoral programs. Credit only granted for: CMSC818O or CMSC614. Formerly: CMSC818O.*

*Advanced topics in computer and network security, including: anonymity, privacy, memory safety, malware, denial of service attacks, trusted hardware, security design principles, and empirically measuring security "in the wild". This will be a largely paper-driven course (there is no textbook), preparing students for research in (or around) the broad area of security. Students will gain first-hand experience launching attacks in controlled environments. The bulk of the grade will be based on a final, semester-long group project.*

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|---|---|---|
| 0101 | Dave Levin<br>TuTh 11:00am - 12:15pm | Seats (Total: 20)<br>CSI 1122 |
| PJ01 | Dave Levin<br>TuTh 11:00am - 12:15pm<br>*Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | Seats (Total: 23)<br>CSI 1122 |

**CMSC616** **Foundations of Parallel Computing**

*Prerequisite: CMSC411 and CMSC412; or permission of instructor. Restriction: Must be in the Computer Science or Applied Mathematics and Scientific Computation master's or doctoral programs. Credit only granted for: CMSC616 or CMSC818X. Formerly: CMSC818X.*

*Covers the foundations of parallel computing. Topics include programming for shared memory and distributed memory parallel architectures, and fundamental issues in design, development and analysis of parallel programs.*

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|---|---|---|
| 0101 | Abhinav Bhatele<br>TuTh 11:00am - 12:15pm | Seats (Total: 20)<br>IRB 1116 |
| PJ01 | Abhinav Bhatele<br>TuTh 11:00am - 12:15pm | Seats (Total: 4)<br>IRB 1116 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC631** **Program Analysis and Understanding**

*Prerequisite: CMSC330; or students who have taken courses with comparable content may contact the department; or permission of instructor.*

*Techniques for static analysis of source code and modern programming paradigms. Analysis techniques: data flow analysis, program dependence graphs, program slicing, abstract interpretation. The meaning of programs: denotational semantics, partial evaluation. Advanced treatment of abstraction mechanisms: polymorphic types, operation overloading, inheritance, object-oriented programming and ML-like programming languages.*

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|---|---|---|
| 0101 | Leonidas Lampropoulos<br>TuTh 2:00pm - 3:15pm | Seats (Total: 22)<br>CSI 2120 |
| PJ01 | Leonidas Lampropoulos<br>TuTh 2:00pm - 3:15pm | Seats (Total: 18)<br>CSI 2120 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC657** **Introduction to Quantum Information Processing**

*Prerequisite: Familiarity with complex numbers and basic concepts in linear algebra (e.g., eigenvalues, eigenvectors, Hermitian and unitary matrices) is required. Credit only granted for: CMSC657 or CMSC858K. Formerly: CMSC858K. Additional information: Previous background in quantum mechanics or theory of computation is not required.*

*An introduction to the field of quantum information processing. Students will be prepared to pursue further study in quantum computing, quantum information theory, and related areas.*

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|---|---|---|
| 0101 | Daniel Gottesman<br>TuTh 12:30pm - 1:45pm | Seats (Total: 37)<br>IRB 2107 |
| PJ01 | Daniel Gottesman<br>TuTh 12:30pm - 1:45pm | Seats (Total: 13)<br>IRB 2107 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC660** **Scientific Computing I**

*Prerequisite: Must have knowledge of Matlab or Python. Cross-listed with: AMSC660. Credit only granted for: AMSC660 or CMSC660.*

*Fundamental techniques in scientific computation with an introduction to theory and software for each topic. Computer numbers and sources of errors, numerical linear algebra, optimization, and Monte Carlo methods.*

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| 0101 | Maria Cameron<br>MWF 10:00am - 10:50am | Seats (Total: 40)<br>PHY 0405 |

**CMSC673** **Capstone in Machine Learning**

*Prerequisite: Minimum grade of C-in CMSC421 or CMSC422. Jointly offered with: CMSC473. Credit only granted for: CMSC673, CMSC798P, CMSC473, or CMSC498P. Formerly: CMSC798P.*

*Semester-long project course in which each student will identify and carry out a project related to machine learning, with the goal of publishing a research paper or software tool.*

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|---|---|---|
| 0101 | Thomas Goldstein<br>TuTh 2:00pm - 3:15pm | Seats (Total: 28)<br>CSI 3117 |
| PJ01 | Thomas Goldstein<br>TuTh 2:00pm - 3:15pm | Seats (Total: 9)<br>CSI 3117 |

**CMSC702** **Algorithmic Evolutionary Biology**

*Restriction: Restricted to Master's/Doctoral students in Computer Science, Electrical and Computer, Engineering, Mathematics, Bioengineering, or permission of instructor. Credit only granted for: CMSC702 or CMSC829A. Formerly: CMSC829A.*

*Covers fundamental computational problems from comparative genomics and evolutionary biology. Topics include multiple sequence alignment and the reconstruction of evolutionary histories (e.g., phylogenetic trees and networks). These tasks are typically framed as NP-hard optimization problems, motivating the development of heuristics based on constraints, graph algorithms, and more recently machine learning. We analyze algorithms from the empirical and theoretical perspectives (e.g., computational complexity, optimality guarantees, and statistical consistency under popular models of evolution). Lastly, we discuss how algorithms are leveraged in emerging applications, like evolutionary analyses of tumors and pathogens, along with their limitations and directions for future research.*

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|---|---|---|
| 0101 | Erin Molloy<br>MW 3:30pm - 4:45pm | Seats (Total: 25)<br>IRB 2107 |

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|---|---|---|
| PJ01 | Erin Molloy<br>MW 3:30pm - 4:45pm | Seats (Total: 15)<br>IRB 2107 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC715** **Wireless and Mobile Systems for the IoT**

*Prerequisite: CMSC417; or permission of instructor. Recommended: STAT100, MATH141, MATH240, and CMSC106; or equivalent courses . Credit only granted for: CMSC818W or CMSC715. Formerly: CMSC818W.*

*Research on the Internet of Things (IoT), from the perspective of wireless networking and mobile sensing. Various techniques, algorithms, and systems that leverage the sensors in smartphones, smartwatches, drones, and IoT devices, to deliver real-world applications*

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|---|---|---|
| 0101 | Nirupam Roy<br>MW 2:00pm - 3:15pm | Seats (Total: 30)<br>IRB 2207 |
| PJ01 | Nirupam Roy<br>MW 2:00pm - 3:15pm | Seats (Total: 10)<br>IRB 2207 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC722** **Artificial Intelligence Planning**

*Prerequisite: CMSC421; or students who have taken courses with comparable content may contact the department; or permission of CMNS-Computer Science department.*

*Automated planning of actions to accomplish some desired goals. Basic algorithms, important systems, and new directions in the field of artificial intelligence planning systems.*

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|---|---|---|
| 0101 | Mark Roberts<br>MW 3:30pm - 4:45pm | Seats (Total: 30)<br>AJC 2132 |
| PJ01 | Mark Roberts<br>MW 3:30pm - 4:45pm | Seats (Total: 10)<br>AJC 2132 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC723** **Natural Language Processing**

*Prerequisite: Minimum grade of C- in CMSC422; and permission of CMNS-Computer Science department. Cross-listed with: INST735, LING723. Credit only granted for: CMSC723, LING723, or INST735. Additional information: CMSC students may only receive PhD Comp. credit for CMSC723 or CMSC823, not both.*

*Introduce fundamental concepts, techniques, and algorithms for the computational handling of natural language. Statistical and machine learning techniques, models, and algorithms that enable computers to deal with the ambiguity and implicit structure of human language. Approaches that focus on uncovering linguistic structure, such as syntactic or semantic parsing, as well as those that focus on manipulating text in useful ways, such as question answering or machine translation.*

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| 0101 | Jordan Ying, Naomi Feldman<br>MW 2:00pm - 3:15pm | Seats (Total: 49)<br>IRB 1116 |
| PJ01 | Naomi Feldman<br>MW 2:00pm - 3:15pm | Seats (Total: 31)<br>IRB 1116 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC724** **Database Management Systems**

*Restriction: Must be in one of the following programs (Computer Science (Master's); Computer Science (Doctoral)) ; or permission of instructor; or permission of CMNS-Computer Science department.*

*Theoretical and implementation issues in advanced database systems. Topics include distributed databases, parallel databases, database client-server architectures, multimedia access methods, advanced query optimization techniques, data semantics and models, object-oriented databases, and deductive and expert database systems.*

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|---|---|---|
| 0101 | Amol Deshpande<br>TuTh 11:00am - 12:15pm | Seats (Total: 21)<br>CSI 1121 |
| PJ01 | Amol Deshpande<br>TuTh 11:00am - 12:15pm | Seats (Total: 14)<br>CSI 1121 |

**CMSC730** **Interactive Technologies in Human-Computer Interaction**

*Restriction: Must be in the Computer Science Master's or Doctoral program; or permission of instructor. Credit only granted for: CMSC838J or CMSC730. Formerly: CMSC838J.*

*Ubiquitous and mobile computing, wearables, virtual/augmented reality, natural user interfaces, tangible UIs, interactive fabrication.*

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|---|---|---|
| 0101 | Huaishu Peng<br>MW 3:30pm - 4:45pm | Seats (Total: 20)<br>IRB 2207 |
| PJ01 | Huaishu Peng<br>MW 3:30pm - 4:45pm | Seats (Total: 22)<br>IRB 2207 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC732** **Human Factors in Security and Privacy**

*Recommended: Previous coursework in human-computer interaction, security and privacy. Credit only granted for: CMSC818D or CMSC732. Formerly: CMSC818D.*

*Introducing a variety of important topics at the intersection of human factors and privacy and security, and developing skills in designing human-subjects studies to evaluate problems and solutions related to these topics.*

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| 0101 | Michelle Mazurek<br>TuTh 9:30am - 10:45am | Seats (Total: 25)<br>IRB 1207 |
| PJ01 | Michelle Mazurek<br>TuTh 9:30am - 10:45am | Seats (Total: 15)<br>IRB 1207 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC740** **Advanced Computer Graphics**

*Prerequisite: MATH240 and CMSC420; or permission of instructor.*

*An introduction to advanced concepts in computer graphics. Includes an introduction to realistic rendering based on physical properties of light transport, radiometric concepts, and the rendering equation; Monte Carlo integration techniques to solve the rendering equation such as path tracing and multiple importance sampling; and neural network techniques for efficient sampling and denoising. Further discusses recent advances in 3D modeling and reconstruction, such as neural network-based 3D reconstruction; inverse rendering using neural radiance fields and differentiable rendering; and generative modeling for images, videos, and 3D data.*

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|---|---|---|
| 0101 | Matthias Zwicker<br>TuTh 2:00pm - 3:15pm | Seats (Total: 29)<br>IRB 2107 |
| PJ01 | Matthias Zwicker<br>TuTh 2:00pm - 3:15pm | Seats (Total: 11)<br>IRB 2107 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC751** **Parallel Algorithms**

*Prerequisite: CMSC451; or ENEE641; or students who have taken courses with comparable content may contact the department. Cross-listed with: ENEE651. Credit only granted for: ENEE459P, ENEE651, ENEE759K or CMSC751. Formerly: ENEE759K.*

*A presentation of the theory of parallel computers and parallel processing. Models of parallel processing and the relationships between these models. Techniques for the design and analysis of efficient parallel algorithms including parallel prefix, searching, sorting, graph problems, and algebraic problems. Theoretical limits of parallelism.*

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| 0101 | Uzi Vishkin<br>TuTh 5:00pm - 6:15pm | Seats (Total: 25)<br>CSI 3120 |

**CMSC798** **Master's Non-Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**CMSC799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**CMSC801** **Department Internal Research Seminar**

*Credit only granted for: CMSC798E or CMSC801. Formerly: CMSC798E.*

*Research overviews from faculty to help introduce departmental research to graduate students.*

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|---|---|---|
| 0101 | Ramani Duraiswami<br>F 11:00am - 11:50am | Seats (Total: 37)<br>IRB 0318 |
| PJ01 | Ramani Duraiswami<br>F 11:00am - 11:50am<br>*Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | Seats (Total: 13)<br>IRB 0318 |

**CMSC818B** **Advanced Topics in Computer Systems; Decision-Making for Robotics**

*Advanced topics selected by the faculty from the literature of computer systems to suit the interest and background of students.*

Focuses on the principles of sequential decision-making in robotics. Topics this year include foundation models for robotics, reinforcement learning, imitation learning, differentiable optimization, and planning with learning.

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| 0101 | Pratap Tokekar<br>TuTh 9:30am - 10:45am | Seats (Total: 49)<br>IRB 2107 |
| PJ01 | Pratap Tokekar<br>TuTh 9:30am - 10:45am<br>*Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | Seats (Total: 5)<br>IRB 2107 |

**CMSC818I** **Advanced Topics in Computer Systems; Large Language Models, Security, and Privacy**

*Advanced topics selected by the faculty from the literature of computer systems to suit the interest and background of students.*

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|---|---|---|
| 0101 | Yizheng Chen<br>TuTh 9:30am - 10:45am | Seats (Total: 47)<br>CSI 3117 |
| PJ01 | Yizheng Chen<br>TuTh 9:30am - 10:45am | Seats (Total: 25)<br>CSI 3117 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC818J** **Advanced Topics in Computer Systems; Domain Specific Architecture**

*Advanced topics selected by the faculty from the literature of computer systems to suit the interest and background of students.*

Cross-listed with ENEE759c. Credit only granted for CMSC818J or ENEE759C.

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|---|---|---|
| 0101 | Bahar Asgari<br>MW 3:30pm - 4:45pm | Seats (Total: 30)<br>CSI 3117 |
| PJ01 | Bahar Asgari<br>MW 3:30pm - 4:45pm | Seats (Total: 10)<br>CSI 3117 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC818L** **Advanced Topics in Computer Systems; Fantastic Zero-Knowledge Proofs and How to Use Them**

*Advanced topics selected by the faculty from the literature of computer systems to suit the interest and background of students.*

Focuses on using zero-knowledge proofs to design and implement systems for privacy-enhancing technologies and computer security applications such as payments, identity systems, and counter-disinformation mechanisms. For years, zero-knowledge proofs were a primarily theoretical tool that allowed Alice to show that f(x, y) = z without revealing anything about x or y. However, zero-knowledge proofs have undergone incredible advances in the past ten years as a result of practical academic work and billions of dollars invested in industrial development, primarily in blockchains. This course will cover those advances with an eye to building practical applications in other domains.

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|---|---|---|
| 0101 | Ian Miers<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>CSI 1122 |
| PJ01 | Ian Miers<br>TuTh 2:00pm - 3:15pm | Seats (Total: 10)<br>CSI 1122 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC828J** **Advanced Topics in Information Processing; Common-sense Reasoning and Natural Language Understanding**

*Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.*

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|---|---|---|
| 0101 | Rachel Rudinger<br>TuTh 12:30pm - 1:45pm | Seats (Total: 29)<br>CSI 1121 |
| PJ01 | Rachel Rudinger<br>TuTh 12:30pm - 1:45pm | Seats (Total: 11)<br>CSI 1121 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC828N** **Advanced Topics in Information Processing; Computational Audition**

*Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.*

Vision and Audition are stand-off senses that allow animals to observe the world and do sense-making. Cameras and microphones allow computer systems to capture the world, analyze it, and possibly recreate it. However, the fields of computer vision and computational audition have developed along somewhat different lines. This course will take a fundamentals based view (math, signal processing, psychophysics) to the formulation of various algorithms for acoustical scene analysis, speech and speaker recognition, source separation, scene recreation, and other topics. The focus will be on both classical formulations and their possible implementation in a deep learning context.

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|---|---|---|
| 0101 | Ramani Duraiswami<br>MW 3:30pm - 4:45pm | Seats (Total: 30)<br>CSI 2117 |
| PJ01 | Ramani Duraiswami<br>MW 3:30pm - 4:45pm | Seats (Total: 10)<br>CSI 2117 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC828P** **Advanced Topics in Information Processing; AI/ML at Scale**

*Advanced topics selected by the faculty from the literature of information processing to suit the interest and background of students.*

Must be in the Computer Science Master's or Doctoral programs, or permission of instructor.

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|---|---|---|
| 0101 | David Jacobs<br>MW 3:30pm - 4:45pm | Seats (Total: 45)<br>IRB 0318 |

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|---|---|---|
| PJ01 | David Jacobs<br>MW 3:30pm - 4:45pm | Seats (Total: 15)<br>IRB 0318 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC838N** **Advanced Topics in Programming Languages; Language-based Security**

*Advanced topics selected by faculty from the literature of programming languages to suit the interest and background of students.*

Must be in the Computer Science Master's or Doctoral programs, or permission of instructor. Software is often designed with vague and unprincipled notions of correctness, opening the door to security and privacy vulnerabilities. To teach students how to create software and systems with guarantees of correct and secure execution, this course explores the formal foundations of computer security through the lens of language-based security. Topics include types for security (e.g., information flow type systems, typed assembly, wasm),formal semantics, security policies and specification, safety- and hyper-properties, secure compilation, and lightweight verification techniques, such as model checking. Students will also do in-depth readings on cutting-edge research in this space.

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| 0101 | Milijana Surbatovich<br>TuTh 3:30pm - 4:45pm | Seats (Total: 30)<br>CSI 1121 |
| PJ01 | Milijana Surbatovich<br>TuTh 3:30pm - 4:45pm | Seats (Total: 10)<br>CSI 1121 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC839A** **Advanced Topics in Human-Computer Interaction; Embodied Media Design**

*Advanced topics selected by the faculty from the literature of human-computer interaction to suit the interest and background of students.*

Explores the potential of human augmentation technologies, such as wearable computing, haptics, virtual reality, and more, to enhance human physical, perceptual, and cognitive capabilities. To achieve this, students will read relevant literature from the fields of Psychology, Cognitive Science, and Human-Computer Interaction. Additionally, students will create low-fidelity paper mockups and a prototype based on digital/analog circuit design, mechanical design, and a programming environment.

| | | |
|---|---|---|
| 0101 | Jun Nishida<br>TuTh 3:30pm - 4:45pm | Seats (Total: 30)<br>CSI 3117 |
| PJ01 | Jun Nishida<br>TuTh 3:30pm - 4:45pm | Seats (Total: 10)<br>CSI 3117 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC839C** **Advanced Topics in Human-Computer Interaction; Governing Algorithms & Algorithmic Governance**

*Advanced topics selected by the faculty from the literature of human-computer interaction to suit the interest and background of students.*

Cross-listed with INST878D. Credit only granted for INST878D or CMSC839C. This cross-cutting interdisciplinary course, taught jointly between the College of Information Studies and the Department of Computer Science, investigates the role that algorithms and automated decision-making systems play in markets, societies, and policymaking. The course connects policy and computational conceptualizations of transparency, security, fairness, privacy, manipulation, and accountability through a series of casestudies and burning debates. Students will collaborate cross-disciplinary and be encouraged to work through difficult trade-offs to reach consensus. By discussing recent applications of algorithms for social and consumer sorting, and the moderation and generation of content, students will engage with the pressing challenges and opportunities in the governance of and by algorithms.

| | | |
|---|---|---|
| 0101 | Ido Sivan-Sevilla, Gabriel Kaptchuk<br>Tu 11:00am - 1:45pm | Seats (Total: 15)<br>JMZ 0103 |
| PJ01 | Gabriel Kaptchuk<br>Tu 11:00am - 1:45pm<br>*Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | Seats (Total: 5)<br>JMZ 0103 |

**CMSC839E** **Advanced Topics in Human-Computer Interaction; Uncertainty Communication for Decision-Making**

*Advanced topics selected by the faculty from the literature of human-computer interaction to suit the interest and background of students.*

Human-Computer Interaction (HCI) research topics focusing on model uncertainty and decision-making. We will cover a range of models, from linear regression to probabilistic forecasts and AI foundation models, and explore how to help human users understand and manage uncertainty in these computational models. Core topics include statistical communication, explainability, decision-making, uncertainty visualization, and LLM/LMM uncertainty. The course format includes a combination of readings, presentations, discussions, and lectures.

| | | |
|---|---|---|
| 0101 | Fumeng Yang<br>MW 2:00pm - 3:15pm | Seats (Total: 30)<br>CSI 2120 |
| PJ01 | Fumeng Yang<br>MW 2:00pm - 3:15pm | Seats (Total: 10)<br>CSI 2120 |

**CMSC848B** **Selected Topics in Information Processing; Computational Imaging**

*Selected topics by the faculty from the literature of information processing to suit the interest and background of students.*

Restriction: Must be in the Computer Science or Electrical and Computer Engineering Master's or Doctoral programs, or permission of instructor. Cross-listed with ENEE739Z. Credit only granted for CMSC848B or ENEE739Z. Introduces various computational imaging systems and the algorithms that underlie their operation. Particular emphasis will be placed on recently developed learning based reconstruction algorithms. This is a mixed lecture/seminar course.

| | | |
|---|---|---|
| 0101 | Christopher Metzler<br>MW 2:00pm - 3:15pm | Seats (Total: 30)<br>IRB 1207 |
| PJ01 | Christopher Metzler<br>MW 2:00pm - 3:15pm | Seats (Total: 15)<br>IRB 1207 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC848K** **Selected Topics in Information Processing; Multimodal Foundation Models**

*Selected topics by the faculty from the literature of information processing to suit the interest and background of students.*

Discusses recent foundation models proposed in the literature, with a focus on vision-language models. Topics include large language models, vision-language models, and vision-audio models.

| | | |
|---|---|---|
| 0101 | Jia-Bin Huang<br>TuTh 11:00am - 12:15pm | Seats (Total: 68)<br>IRB 0318 |
| PJ01 | Jia-Bin Huang<br>TuTh 11:00am - 12:15pm | Seats (Total: 32)<br>IRB 0318 |
| | *Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | |

**CMSC848Z** **Selected Topics in Information Processing; Federated Learning**

*Selected topics by the faculty from the literature of information processing to suit the interest and background of students.*

Prerequisite: ENEE436 or CMSC422; or students who have taken courses with comparable content may contact the Department. Cross-listed with ENEE759Z. Credit only granted for ENEE759Z or CMSC848Z. Principles and applications of federated learning. Federated optimization, statistical and system homogeneity models, variations of federated aggregation, security and privacy considerations, foundation models.

| | | |
|---|---|---|
| 0101 | Ang Li<br>MW 3:30pm - 4:45pm | Seats (Total: 30)<br>EGR 0135 |

**CMSC858A** **Advanced Topics in Theory of Computing; Concentration Inequalities for Randomized Algorithms and Machine Learning**

*Advanced topics selected by the faculty from the literature of theory of computing to suit the interest and background of students.*

Prerequisites: CMSC451 or equivalent; and an interest in probability (no major probability background is required, but general mathematical interest is necessary). Must be in the Computer Science Master's or Doctoral programs, or permission of department Concentration inequalities (large-deviation bounds) are of fundamental use in randomized algorithms, machine learning, data science, and other areas. This course will cover cutting-edge techniques in this field, and applications.

| | | |
|---|---|---|
| 0101 | Aravind Srinivasan<br>TuTh 9:30am - 10:45am | Seats (Total: 40)<br>CSI 1122 |
| PJ01 | Aravind Srinivasan<br>TuTh 9:30am - 10:45am<br>*Must be in the Computer Science (M.S.) program. Golden ID students are not eligible for this section.* | Seats (Total: 3)<br>CSI 1122 |

**CMSC898** **Pre-Candidacy Research**

*Advanced topics selected by the faculty from the literature of applications of computer science to suit the interest and background of students.*

**Contact department for information to register for this course.**

**CMSC899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# COMM Communication Fall 2024

**COMM107** **Oral Communication: Principles and Practices**

*Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285.*

*A study of and practice in oral communication, including principles of interviewing, group discussion, listening, informative briefings, and persuasive speeches.*

| | | |
|---|---|---|
| 0101 | Stephan Garnier<br>MWF 8:00am - 8:50am | Seats (Total: 19)<br>SKN 1112 |
| 0201 | Fielding Montgomery<br>MWF 8:00am - 8:50am | Seats (Total: 19)<br>PLS 1176 |
| 0301 | Tania Chanda<br>MWF 8:00am - 8:50am | Seats (Total: 19)<br>PLS 1180 |

| | | |
|---|---|---|
| 0401 | Josue Porras-Fernandez<br>MWF 8:00am - 8:50am | Seats (Total: 19)<br>PLS 1184 |
| 1101 | Stephan Garnier<br>MWF 9:00am - 9:50am | Seats (Total: 19)<br>SKN 1112 |
| 1201 | Jim Golden<br>MWF 9:00am - 9:50am | Seats (Total: 19)<br>PLS 1176 |
| 1301 | Tania Chanda<br>MWF 9:00am - 9:50am | Seats (Total: 19)<br>PLS 1180 |
| 1401 | Josue Porras-Fernandez<br>MWF 9:00am - 9:50am | Seats (Total: 19)<br>PLS 1184 |
| 1601 | Kimberli Munoz<br>MWF 9:00am - 9:50am | Seats (Total: 19)<br>PLS 1164 |
| 2301 | Yana Crossland-Wilson<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>SKN 1112 |
| 2401 | Jim Golden<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>PLS 1176 |
| 2501 | Daniel Foster<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>PLS 1180 |
| 2601 | Kimberli Munoz<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>PLS 1184 |
| 2901 | Anuoluwapo Adesina<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>WDS 1127 |
| 3001 | Yuxiao Zhang<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>TLF 0110 |
| 3301 | Yana Crossland-Wilson<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>SKN 1112 |
| 3401 | Jeonghyun Kim<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>PLS 1176 |

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|---|---|---|
| 3501 | Daniel Foster<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>PLS 1180 |
| 3601 | Kimberli Munoz<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>PLS 1184 |
| 3701 | Emma Newton, Fielding Montgomery<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>ATL 2316 |
| 3801 | Anuoluwapo Adesina<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>TLF 0103 |
| 3901 | Yuxiao Zhang<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>TLF 0110 |
| 4301 | Kimberli Munoz<br>MWF 1:00pm - 1:50pm | Seats (Total: 19)<br>SKN 1112 |
| 4401 | Jim Golden<br>MWF 1:00pm - 1:50pm | Seats (Total: 19)<br>PLS 1176 |
| 4501 | Daniel Foster<br>MWF 1:00pm - 1:50pm | Seats (Total: 19)<br>PLS 1180 |
| 4601 | Emma Newton<br>MWF 1:00pm - 1:50pm | Seats (Total: 19)<br>PLS 1184 |
| 4901 | Kimberli Munoz<br>MWF 2:00pm - 2:50pm | Seats (Total: 19)<br>SKN 1112 |
| 5001 | Jim Golden<br>MWF 2:00pm - 2:50pm | Seats (Total: 19)<br>PLS 1176 |
| 5101 | Daniel Foster<br>MWF 2:00pm - 2:50pm | Seats (Total: 19)<br>PLS 1180 |
| 5201 | Emma Newton<br>MWF 2:00pm - 2:50pm | Seats (Total: 19)<br>PLS 1184 |
| 5401 | Ran Ma<br>MW 12:30pm - 1:45pm | Seats (Total: 19)<br>PLS 1168 |

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|---|---|---|
| 5501 | Ran Ma<br>MW 2:00pm - 3:15pm | Seats (Total: 19)<br>HBK 1108 |
| 5601 | Hafiz Ahmad<br>MW 2:00pm - 3:15pm | Seats (Total: 19)<br>ATL 2316 |
| 5701 | Mollie Kaufer<br>MW 2:00pm - 3:15pm | Seats (Total: 19)<br>PLS 1172 |
| 5801 | Divine Aboagye<br>MW 2:00pm - 3:15pm | Seats (Total: 19)<br>PLS 1164 |
| 6101 | Hafiz Ahmad<br>MW 3:30pm - 4:45pm | Seats (Total: 19)<br>PHY 4222 |
| 6201 | Mollie Kaufer<br>MW 3:30pm - 4:45pm | Seats (Total: 19)<br>JMZ 1117 |
| 6301 | Divine Aboagye<br>MW 3:30pm - 4:45pm | Seats (Total: 19)<br>PLS 1176 |
| 6401 | Vijaya Bohlmann<br>MW 3:30pm - 4:45pm | Seats (Total: 19)<br>PLS 1180 |
| 6501 | Raphael Mazzone<br>MW 3:30pm - 4:45pm | Seats (Total: 19)<br>PLS 1172 |
| 6601 | Mollie Kaufer<br>MW 5:00pm - 6:15pm | Seats (Total: 19)<br>PLS 1184 |
| 6701 | Vijaya Bohlmann<br>MW 5:00pm - 6:15pm | Seats (Total: 19)<br>PLS 1180 |
| 7301 | Marcus Wu<br>TuTh 8:00am - 9:15am | Seats (Total: 19)<br>SKN 1112 |
| 7401 | T.X. Watson<br>TuTh 8:00am - 9:15am | Seats (Total: 19)<br>PLS 1176 |
| 7501 | Kate Smitherman<br>TuTh 8:00am - 9:15am | Seats (Total: 19)<br>PLS 1180 |

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|---|---|---|
| 7601 | Esther Son<br>TuTh 8:00am - 9:15am | Seats (Total: 19)<br>PLS 1184 |
| 7801 | Chenchen Wang<br>TuTh 8:00am - 9:15am | Seats (Total: 19)<br>WDS 1127 |
| 7901 | Chenchen Wang<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>WDS 1127 |
| 8001 | Allison Doherty<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>ATL 0201 |
| 8101 | Misa Park<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>SKN 1112 |
| 8201 | T.X. Watson<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>PLS 1176 |
| 8301 | Kate Smitherman<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>PLS 1180 |
| 8401 | Esther Son<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>PLS 1184 |
| 8501 | Jonathan Leach<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>TYD 1108 |
| 8601 | Soyoung Bae<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>JMZ 0118 |
| 8701 | Cassondra Pope<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>PLS 1158 |
| 8801 | Jonathan Leach<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>TLF 1101 |
| 8901 | Neha Kamran<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>SKN 1112 |
| 9001 | Sabeen Sheikh<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>PLS 1176 |

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|---|---|---|
| 9101 | Faith Otchere<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>PLS 1180 |
| 9201 | Seyeon Park<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>PLS 1184 |
| 9301 | Allison Doherty<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>ATL 2316 |
| 9401 | Marcus Wu<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>PLS 1115 |
| 9501 | Misa Park<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>WDS 1127 |
| 9601 | Neha Kamran<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>SKN 1112 |
| 9701 | Sabeen Sheikh<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>PLS 1176 |
| 9801 | Faith Otchere<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>PLS 1180 |
| 9901 | Seyeon Park<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>PLS 1184 |
| 9902 | Allison Doherty<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>SPH 0307 |
| 9903 | Ayodeji Dapherede-Otusanya<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>TLF 0110 |
| 9904 | Jade Olson<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>ESJ B0322 |
| 9905 | Xinyi Song<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>SKN 1112 |
| 9906 | Jeremy Grossman<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>PLS 1176 |

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|---|---|---|
| 9907 | Ayodeji Dapherede-Otusanya<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>PLS 1180 |
| 9908 | Felicity Dogbatse<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>PLS 1184 |
| 9909 | Jade Olson<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>PLS 1172 |
| 9910 | Omoleye Adeyemi<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>PLS 1117 |
| 9911 | Xinyi Song<br>TuTh 3:30pm - 4:45pm | Seats (Total: 19)<br>SKN 1112 |
| 9912 | Jeonghyun Kim<br>TuTh 3:30pm - 4:45pm | Seats (Total: 19)<br>PLS 1176 |
| 9913 | Fielding Montgomery<br>TuTh 3:30pm - 4:45pm | Seats (Total: 19)<br>PLS 1180 |
| 9914 | Jeremy Grossman<br>TuTh 3:30pm - 4:45pm | Seats (Total: 19)<br>PLS 1184 |
| 9917 | Julie Gowin<br>TuTh 5:00pm - 6:15pm | Seats (Total: 19)<br>SKN 1112 |
| 9918 | Fielding Montgomery<br>TuTh 5:00pm - 6:15pm | Seats (Total: 19)<br>PLS 1176 |
| 9919 | Neha Kamran<br>TuTh 5:00pm - 6:15pm | Seats (Total: 19)<br>PLS 1180 |
| 9920 | Katie O'Malley<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>SQH 1111 |
| 9921 | Misa Park<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>JMZ 0205 |
| 9922 | Felicity Dogbatse<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>EDU 2102 |

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|---|---|---|
| 9923 | Cassondra Pope<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>TLF 0103 |
| 9924 | Cassondra Pope<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>JMZ 2120 |
| 9925 | Neha Kamran<br>TuTh 3:30pm - 4:45pm | Seats (Total: 19)<br>PLS 1168 |
| 9926 | Sean Rhodes<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>WDS 1131 |
| 9927 | Neha Kamran<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>HBK 1108 |
| FC01 | Daniel Foster<br>MW 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>JMZ 1215 |
| FC02 | Cassondra Pope<br>TuTh 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>TLF 1103 |
| FC03 | L Gordon<br>TuTh 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>PLS 1164 |
| FC04 | Paula Nadler<br>MW 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>JMZ 1215 |
| FC05 | Jonathan Leach<br>MW 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>WDS 1102 |
| FC06 | L Gordon<br>TuTh 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>PLS 1164 |

**COMM107B Oral Communication: Principles and Practices**

(Perm req)

*Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285.*

*A study of and practice in oral communication, including principles of interviewing, group discussion, listening, informative briefings, and persuasive speeches.*

Restricted to students in the Smith Business Leadership Fellows program.

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|---|---|---|
| 0101 | Melissa Lucas<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>PLS 1115 |
| 0201 | Christine Schaaf<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>TWS 0214 |

**COMM107C** **Oral Communication: Principles and Practices**

*Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285.*

*A study of and practice in oral communication, including principles of interviewing, group discussion, listening, informative briefings, and persuasive speeches.*

This class is designed for current or prospective STEM students.

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|---|---|---|
| 0101 | Cassondra Pope<br>TuTh 8:00am - 9:15am | Seats (Total: 19)<br>JMZ 0208 |

**COMM130** **Professional Communication and Writing**

*Restriction: Must be in the Communication major.*

*Designed to enhance the clarity and grace of students' writing. Students will acquire knowledge of writing based on principles of style and grammar as well as argument and organizational structure across a diversity of professional writing contexts. Students will also engage in peer review of one another's writing.*

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|---|---|---|
| 0101 | Skye De Saint Felix<br>F 11:00am - 11:50am | Seats (Total: 60)<br>ONLINE |
| 0201 | Skye De Saint Felix<br>F 12:00pm - 12:50pm | Seats (Total: 60)<br>ONLINE |

**COMM200** **Critical Thinking and Speaking**

*Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130, OR THET285.*

*Theory and practice of persuasive discourse analysis and composition. Research techniques, logical and rhetorical conceptions of argument, and technical principles for persuading in public venues.*

Attendance on the first day of classes is mandatory.

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|---|---|---|
| 0101 | Rachel Bailey<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>ATL 2316 |
| 0201 | Jana Sabri<br>TuTh 8:00am - 9:15am | Seats (Total: 19)<br>KEY 0119 |
| 0301 | Jana Sabri<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>WDS 1131 |
| 0401 | Rachel Bailey<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>PLS 1113 |
| 0501 | Allison Doherty<br>TuTh 3:30pm - 4:45pm | Seats (Total: 19)<br>PLS 1158 |
| 0601 | Allison Doherty<br>TuTh 5:00pm - 6:15pm | Seats (Total: 19)<br>PLS 1158 |
| 0701 | Miriam Komuhendo<br>MW 3:30pm - 4:45pm | Seats (Total: 19)<br>LEF 1171 |
| 0801 | Miriam Komuhendo<br>MW 5:00pm - 6:15pm | Seats (Total: 19)<br>LEF 1171 |

**COMM201** **Introduction to Public Relations**

*Prerequisite: Must have completed or be concurrently enrolled in COMM130. Restriction: Must be in the Communication major.*

*Basic concepts and principles of public relations. Roles in organizations and society; history; skills and practices of public relations; theories and models of effective and ethical public relations.*

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|---|---|---|
| 0101 | Yan Qu<br>MW 2:00pm - 3:15pm | Seats (Total: 75)<br>ESJ 0215 |

**COMM230** **Argumentation and Debate**

*A study of the fundamental principles of reasoning, analysis, and evidence preparation of debate briefs and presentation of standard academic debate.*

Attendance on the first day of class is mandatory.

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|---|---|---|---|
| 0101 | Sean Rhodes<br>TuTh 8:00am - 9:15am | Seats (Total: 24)<br>KEY 0123 | |
| 0201 | Sean Rhodes<br>TuTh 9:30am - 10:45am | Seats (Total: 24)<br>TWS 0205 | |

**COMM250** **Introduction to Communication Inquiry**

*An introduction to the field of communication. Definitions, models, and contexts of communication; rhetorical theory and rhetorical criticism of discourse.*

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|---|---|---|---|
| 0101 | Anita Seate<br>MW 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 25)<br>JMZ 0220<br>KEY 0125 | Discussion |
| 0102 | Anita Seate<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 25)<br>JMZ 0220<br>KEY 0125 | Discussion |
| 0103 | Anita Seate<br>MW 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 25)<br>JMZ 0220<br>JMZ 0125 | Discussion |
| 0104 | Anita Seate<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 25)<br>JMZ 0220<br>JMZ 0125 | Discussion |
| 0106 | Anita Seate<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 25)<br>JMZ 0220<br>WDS 0104 | Discussion |

**COMM269B** **Special Topics in Study Abroad II; Oral Communication for Leaders in the Business World**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**COMM269C** **Special Topics in Study Abroad II; Designing Communication Campaigns**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**COMM269M** **Special Topics in Study Abroad II; Media Technology**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**COMM269P** **Special Topics in Study Abroad II; Principles of Film and Media Production**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**COMM269R** **Special Topics in Study Abroad II; Introduction to Public Relations**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**COMM288** **Communication Internship**

(Perm req)

*An individual experience arranged by the student with the instructor. Does not satisfy communication major requirements. 45 hours of supervised internship per credit hour with communication professional. Not a substitute for COMM386.*

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|---|---|---|
| 0101 | Julie Gowin<br>Contact instructor or department for details. | Seats (Total: 20) |
| 0601 | Leah Waks<br>Contact instructor or department for details. | Seats (Total: 20) |

**COMM296** **Deliberative Democracy**

*Credit only granted for: HNUH238A, COMM398I (Fall 2022), or COMM296. Formerly: COMM398I.*

*How do we change our politics, save democracy, and move beyond the "us vs. them" culture that divides us? This course begins with the premise that how we talk to one another and debate controversial issues can promote the public good or erode it in irreparable ways. Students in each class session will put principles of public dialogue into practice as they learn deliberative theories and skills that can help save democracy. Class readings will turn to historical case studies to frame the most controversial political issues we face today.*

Restricted to students in Carillon Communities. Once registered, students need an electronic stamp from an advisor to drop the course.

| | | |
|---|---|---|
| 0101 | Shawn Parry-Giles<br>MW 11:00am - 12:15pm<br>*Restricted to students in Carillon Communities. Once registered, students need an electronic stamp from an advisor to drop the course.* | Seats (Total: 50)<br>ESJ 2101 |

**COMM298M** **Selected Topics in Communication; Machine Learning in Language and Art**

*Special topical study of contemporary issues in communication.*

Cross-listed with ARHU299M and ENGL289G. Credit only granted for ARHU299M, COMM298M, or ENGL289G. How do language models like ChatGPT generate essays, poems, and stories? How do machine learning models learn to determine the author of a text, or identify the artist behind a painting? What makes language models like ChatGPT different from image generators like Stable Diffusion? And can language models be used to make music? We will teach you how to build models that read and write in natural languages, what makes those models different from applications of machine learning to visual art and music ,how to use Python for data analysis and statistics, how to visualize data, and how to apply mathematical and statistical knowledge to practical problems in the digital humanities. No background in coding or statistics is required, but students with some programming or statistics experience are also very welcome in the course.

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|---|---|---|
| 0101 | Sathvik Nair, Omar Agha | Seats (Total: 20) |
| | TuTh 9:30am - 10:45am | JMZ 1224 |

**COMM298R** **Selected Topics in Communication; Introduction to Public Relations**

*Special topical study of contemporary issues in communication.*

**Contact department for information to register for this course.**

**COMM301** **Rhetorical Theories**

*Prerequisite: COMM130, COMM250; and one course from STAT100, BMGT230, EDMS451, CCJS200, PSYC200, or SOCY201; and one course from COMM107, COMM200, or COMM230; and must have completed or be concurrently enrolled in COMM304. Restriction: Must be in the Communication major. Credit only granted for: COMM301 or COMM401.*

*Explores the idea of rhetoric, from antiquity to digitality. Rhetoric, as an art of moving bodies, is central to democratic self-governance: only through persuading each other can we develop a shared vision of a just and desirable future. This course tracks the genesis of rhetorical theory in the ancient world, 20th-century struggles against fascist rhetoric, and contemporary extensions of rhetoric in digital media ecologies.*

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|---|---|---|
| 0101 | Hailey Otis | Seats (Total: 50) |
| | TuTh 9:30am - 10:45am | TYD 1132 |

**COMM302** **Communication Science Theories**

*Prerequisite: COMM130, COMM250; and one of STAT100, BMGT230, EDMS451, CCJS200, PSYC200, or SOCY201; and one of COMM107, COMM200, or COMM230; and must have completed or be concurrently enrolled in COMM304. Restriction: Must be in the Communication major. Credit only granted for: COMM302 or COMM402.*

*This class introduces students to the principles of theory construction and offers a critical overview of how communication theories can be applied to solving problems in diverse social contexts, including interpersonal, intercultural, organizational, health, and/or political issues. The ultimate goal of this course is to put students in an intellectual position to understand theories more logically and critically and use them appropriately and effectively in conducting academic research and addressing social issues.*

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|---|---|---|
| 0101 | Jiyoun Kim<br>MW 3:30pm - 4:45pm | Seats (Total: 50)<br>KEY 0103 |

**COMM303 Media Theory**

*Prerequisite: COMM130 and COMM250; and one of STAT100, BMGT230, EDMS451, CCJS200, PSYC200, or SOCY201; and one of COMM107, COMM200, or COMM230; and must have completed or be concurrently enrolled in COMM304. Restriction: Must be in the Communication major.*

*Provides students with an introduction to media theory from multiple perspectives. We will begin by understanding how the history of mediated communication has been connected to ideology and lived experiences. Through readings, discussions, and activities, you will understand how technical, historical, economic social, and political forces have helped shape media content and the media themselves. You should also become familiar with the debate over how much influence the media have over their audiences, and what types of influences are present. The course will introduce issues relevant to consideration of media and historically underrepresented and marginalized groups, as well as individual and societal functions of the media.*

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|---|---|---|
| 0101 | Briana Barner<br>MW 2:00pm - 3:15pm | Seats (Total: 75)<br>TWS 1100 |
| ESG1 | Lamia Zia<br>TuTh 11:00am - 12:15pm<br>*Restricted to students in the Communication Program at USG.* | Seats (Total: 30)<br>BLD3 3220 |

**COMM304 Communication Research Literacy**

*Prerequisite: Must have completed the Communication gateway requirements (COMM250; and one of STAT100, BMGT230, EDMS451, CCJS200, PSYC200, or SOCY201; and one of COMM107, COMM200 or COMM230). Must have completed or be concurrently enrolled in COMM130. Restriction: Must be in the Communication program.*

*Explores the different research traditions in the Communication discipline. This "literacy" course will develop students' ability to locate and fully comprehend Communication research and to understand how that research is conducted, reported, analyzed, and critiqued in Communication literature.*

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|---|---|---|
| 0101 | Nana Kwame Osei Fordjour<br>TuTh 2:00pm - 3:15pm | Seats (Total: 120)<br>KEY 0106 |
| ESG1 | Maggie Williams<br>MW 11:00am - 12:15pm<br>*Restricted to students in the Communication Program at USG.* | Seats (Total: 30)<br>BLD3 2230 |

**COMM305 Qualitative Communication Research Methods**

*Prerequisite: COMM130 and COMM304. Restriction: Must be in the Communication major.*

*Introduces undergraduate students to the methods used in qualitative communication research. Topics covered in class include ethics, field research, reflexivity, data collection, and data analysis. Over the course of the semester, students will develop a research prospectus, engage in field research (interviews and observations), analyze qualitative data, and write/present their research.*

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|---|---|---|
| 0101 | Sahar Khamis<br>MW 5:00pm - 6:15pm | Seats (Total: 30)<br>KEY 0126 |

**COMM306** **Rhetorical Methods in Communication**

*Prerequisite: COMM130 and COMM304. Restriction: Must be in the Communication major.*

*Equips students with skills for conducting research using rhetorical-critical methods. Such methods are crucial for scholars studying all kinds of public rhetoric: speeches, popular culture, photojournalism, digital media, public monuments, laws, and more. They are also instrumental for citizens engaging with elected officials, other citizens, and democratic institutions, as well as professionals who seek to create and understand persuasive discourse. This course will equip you with critical interpretive skills important to your work as a scholar, citizen, and professional.*

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|---|---|---|
| 0101 | Carly Woods<br>MW 2:00pm - 3:15pm | Seats (Total: 30)<br>TWS 0205 |

**COMM307** **Quantitative Methods in Communication**

*Prerequisite: COMM130 and COMM304. Restriction: Must be in the Communication major. Credit only granted for: COMM400 or COMM307. Formerly: COMM400.*

*Designed to introduce students to the basics of quantitative communication research methods. As such, it covers the basic principles of scientific inquiry, the process for generating research questions and hypotheses, the concept of variables, sampling methods, research designs, basics of data analyses, as well as ethics in scientific research. This course prepares students to become informed consumers of quantitative communication research.*

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|---|---|---|
| 0101 | Soyoung Bae<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>ASY 3207 |
| 0201 | Yan Qu<br>MW 3:30pm - 4:45pm | Seats (Total: 30)<br>JMP 1202 |

**COMM311** **Peer Consulting in Oral Communication**

(Perm req)

*Restriction: Permission of Communication department. Credit only granted for: COMM398C or COMM311. Formerly: COMM398C. Additional information: There will be a pre-enrollment interview conducted before students are given permission to enroll in the course. Contact the instructor for details.*

*Provides training in the principles and practice of peer consulting in the context of the Oral Communication Center in the Department of Communication. Students will apply and integrate the knowledge and skills acquired in their fundamental studies oral communications course with new training to help their peers become outstanding listeners and speakers. Students will also engage in a group research project designed to extend knowledge in peer consulting best practices.*

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|---|---|---|
| 0101 | Raphael Mazzone<br>MW 12:00pm - 12:50pm<br>Contact instructor or department for details. | Seats (Total: 20)<br>SKN 2127 |

**COMM324** **Communication and Gender**

*Explores how communication shapes constructions of gender, sex, sexuality and other identity markers. Topics include issues of oppression, identity, and power and social, political, and economic situations and examines how these issues impact our daily lives.*

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|---|---|---|
| 0101 | Crystal Stone<br>MW 3:30pm - 4:45pm | Seats (Total: 25)<br>TLF 1101 |
| 0201 | Crystal Stone<br>MW 5:00pm - 6:15pm | Seats (Total: 25)<br>WDS 0104 |
| 0301 | Umisha Kc<br>TuTh 8:00am - 9:15am | Seats (Total: 25)<br>JMZ 0120 |
| 0401 | Kalin Schultz<br>TuTh 9:30am - 10:45am | Seats (Total: 25)<br>JMZ 2206 |
| 0501 | Janna Soeder<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>BPS 0283 |
| ESG1 | Janna Soeder<br>MW 11:00am - 12:15pm<br>*Restricted to students in the Biological Sciences Program at USG.* | Seats (Total: 30)<br>BLD4 3321 |

**COMM330** **Argumentation and Public Policy**

*Contemporary theories of argumentation with special emphasis on methods of formulating and critiquing public policy argument.*

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|---|---|---|
| 0101 | Janna Soeder<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>HBK 0123 |

| | | |
|---|---|---|
| 0201 | Janna Soeder<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>KEY 0102 |
| ESG1 | Janna Soeder<br>MW 12:30pm - 1:45pm<br>*Restricted to students in the Communication Program at USG.* | Seats (Total: 30)<br>BLD3 3225 |

**COMM331** **News Writing and Reporting for Public Relations**

(Perm req)

*Prerequisite: COMM130 and COMM201. Restriction: Must be in Communication program; and (sophomore standing; or junior standing). Credit only granted for: JOUR201, COMM231, or COMM331. Formerly: COMM231.*

*Writing and researching news and information media for public relations; laboratory in news-gathering tools and writing techniques for public relations.*

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|---|---|---|
| 0101 | Rachel Bailey, Mollie Kaufer<br>MW 11:00am - 12:50pm | Seats (Total: 18)<br>WDS 1131 |
| 0201 | Mollie Kaufer, Rebecca Theim<br>MW 9:00am - 10:50am | Seats (Total: 18)<br>WDS 1131 |

**COMM351** **Public Relations Techniques**

(Perm req)

*Prerequisite: COMM331. Restriction: Must be in Communication program.*

*The techniques of public relations, including news releases, publications and printed materials, audio-visual techniques, speeches and special events. Application of these techniques in laboratory and field projects.*

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|---|---|---|
| 0101 | Saymin Lee<br>MW 1:00pm - 2:15pm | Seats (Total: 18)<br>JMZ 0205 |
| 0201 | Saymin Lee<br>MW 2:30pm - 3:45pm | Seats (Total: 18)<br>JMZ 0205 |

**COMM353** **New Media Writing for Public Relations**

(Perm req)

*Prerequisite: Minimum grade of C- in COMM351. Restriction: Must be in Communication program. Credit only granted for: COMM352 or COMM353. Formerly: COMM352.*

*Students learn the uses and influence of new media on public relations practice and expand their ability to write using new and traditional media platforms and tools*

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|---|---|---|
| 0101 | Viktoriia Savchuk<br>TuTh 2:00pm - 3:15pm | Seats (Total: 18)<br>PLS 1158 |
| 0201 | Viktoriia Savchuk<br>TuTh 12:30pm - 1:45pm | Seats (Total: 18)<br>PLS 1158 |

**COMM360 The Rhetoric of Black America**

*An historical-critical survey of the rhetoric of Black Americans from the colonial period to the present.*

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|---|---|---|
| 0101 | Daviana Fraser<br>TuTh 9:30am - 10:45am | Seats (Total: 25)<br>JMZ 0122 |
| 0201 | Daviana Fraser<br>TuTh 12:30pm - 1:45pm | Seats (Total: 25)<br>JMZ 0122 |

**COMM370 Mediated Communication**

*Prerequisite: COMM250. Restriction: Junior standing or higher.*

*Analysis and critique of structure, performance, content, effects, and future of mediated communication.*

| | | |
|---|---|---|
| 0101 | Andrew Boge<br>TuTh 9:30am - 10:45am | Seats (Total: 30)<br>TYD 0102 |

**COMM371 Communication and Digital Media**

*Restriction: Must be in Communication program.*

*A basic introduction to communication in the digital age. Through class lectures, assignments and projects, students will learn to effectively use new media for the purpose of strategic message creation and management used in the field of communication. Students will apply the basics of visual layout skills and the principles of visual design to create messages using words and images.*

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|---|---|---|
| ESG1 | Ilse Genovese<br>TuTh 12:30pm - 1:45pm<br>*Restricted to students in the Communication Program at USG.* | Seats (Total: 25)<br>BLD3 3216 |

**COMM372 Communication, Meaning, and Digital Media**

*Restriction: Must be in Communication program.*

*An exploration of visual communication and meaning creation. A theoretical and practical application of communication concepts and techniques in the production of visual content.*

Formerly COMM498J. Credit granted for COMM498J or COMM372.

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|---|---|---|
| ESG1 | Adam Nixon<br>M 5:00pm - 7:30pm | Seats (Total: 25)<br>BLD3 3216 |
| | *Restricted to students in the Communication Program at USG.* | |

**COMM373 Communication and Digital Visual Narrative**

*Restriction: Must be in Communication program.*

*Examination of the traditional style of visual communication, its practices and theoretical underpinnings juxtaposed against contemporary digital media aesthetics and techniques. Utilizing a variety of communication skills and new media tools, students will plan, write, shoot, edit, and upload digital visual narratives.*

Formerly COMM498K. Credit granted for COMM498K or COMM373.

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|---|---|---|
| ESG1 | Adam Nixon<br>Tu 5:00pm - 7:30pm | Seats (Total: 25)<br>BLD3 3216 |
| | *Restricted to students in the Communication Program at USG.* | |

**COMM382 Essentials of Intercultural Communication**

*Credit only granted for: COMM382 or COMM482.*

*Introduction of major theories and concepts of intercultural communication; examination of processes that make up cultural differences; and use of intercultural communication competence skills.*

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|---|---|---|
| 0101 | Tania Nachrin<br>TuTh 12:30pm - 1:45pm | Seats (Total: 25)<br>TYD 2111 |
| 0201 | Ayodeji Dapherede-Otusanya<br>TuTh 3:30pm - 4:45pm | Seats (Total: 25)<br>TYD 0101 |
| 0301 | Ayodeji Dapherede-Otusanya<br>TuTh 5:00pm - 6:15pm | Seats (Total: 25)<br>JMZ 1124 |
| ESG1 | Maggie Williams<br>MW 9:30am - 10:45am | Seats (Total: 30)<br>BLD3 2230 |
| | *Restricted to students in the Communication Program at USG.* | |

**COMM386 Experiential Learning**

(Perm req)

*Prerequisite: Permission of ARHU-Communication department. Restriction: Junior standing or higher; and must be in Communication program.*

*Supervised internship experience with communication professionals. Relation of academic training to professional experience.*

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|---|---|---|
| 0101 | Julie Gowin<br>Contact instructor or department for details. | Seats (Total: 75) |
| ESG1 | Raimonda Nuredini<br>Class time/details on ELMs<br>*Restricted to students in the Communication Program at USG.* | Seats (Total: 20)<br>ONLINE |

**COMM388** **Communication Practicum**

(Perm req)

*Supervised professional-level practice in communication.*

**Contact department for information to register for this course.**

**COMM398** **Selected Topics in Communication**

(Perm req)

*Topical study of contemporary issues in communication.*

**Contact department for information to register for this course.**

**COMM398F** **Selected Topics in Communication; Web Graphics, Coding, and Site Design**

*Topical study of contemporary issues in communication.*

**Contact department for information to register for this course.**

**COMM398N** **Selected Topics in Communication; Communication and Digital Imaging**

*Topical study of contemporary issues in communication.*

| | | |
|---|---|---|
| ESG1 | Ilse Genovese<br>TuTh 2:00pm - 3:15pm<br>*Restricted to students in the Communication Program at USG.* | Seats (Total: 25)<br>BLD3 3216 |

**COMM398Q** **Selected Topics in Communication; Social Media Analytics**

*Topical study of contemporary issues in communication.*

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|---|---|---|
| ESG1 | Adam Nixon<br>Th 5:00pm - 7:30pm<br>*Restricted to students in the Communication Program at USG.* | Seats (Total: 30)<br>BLD3 2230 |

**COMM398U** **Selected Topics in Communication; Peer Mentoring in Oral Communication**

(Perm req)

*Topical study of contemporary issues in communication.*

Provides training in peer mentoring specifically focusing on communicati ve best practices, the establishment of shared goals, and effectively managing the mentor/mentee relationships.

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|---|---|---|
| 0101 | Raphael Mazzone | Seats (Total: 12) |
| | MW 12:00pm - 12:50pm | SKN 1112 |
| | Contact instructor or department for details. | |

**COMM398W** **Selected Topics in Communication; Rhetoric, Racism, Resistance**

*Topical study of contemporary issues in communication.*

This course will engage the relationship between communication, racism, and resistance. We'll explore how rhetoric contributes to and reinforces racial systems of power alongside the ways racialized communities wield rhetoric as a mode of resistance. The goal of the course is for students to reflect on the role of rhetoric in sustaining systems of disenfranchisement, how rhetoric can be a form of racial violence, and the profound ways rhetoric can assist in dismantling racist structures of power. Topics include studying the social movements from Black, Asian American, Latinx, and Indigenous communities; colorblind and post-racial public discourse; DEI in contemporary political debates; intersectional approaches to the study of racism; and the transnational and imperial politics of racism within and beyond the United States.

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|---|---|---|
| 0101 | Andrew Boge | Seats (Total: 30) |
| | TuTh 11:00am - 12:15pm | TYD 0102 |

**COMM398Z** **Selected Topics in Communication; Media Ethics and Cultural Citizenship**

*Topical study of contemporary issues in communication.*

**Contact department for information to register for this course.**

**COMM399** **Honors Thesis**

(Perm req)

**Contact department for information to register for this course.**

**COMM425** **Negotiation and Conflict Management**

*Role of communication in shaping negotiation and conflict processes and outcomes.*

Restricted to COMM majors only.

| | | |
|---|---|---|
| 0101 | Lauren Edelstein | Seats (Total: 30) |
| | TuTh 5:00pm - 6:15pm | TWS 0214 |

**COMM426** **Conflict Management**

*Recommended: COMM425 and COMM250.*

*Role of communication in managing conflict processes.*

This course is restricted to COMM majors only.

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|---|---|---|
| 0101 | Lauren Edelstein<br>TuTh 3:30pm - 4:45pm | Seats (Total: 30)<br>TWS 0214 |

**COMM427 Crisis Communication**

*Explores theories and research related to communication before, during, and after a crisis. Students examine the fundamentals of organizational communication, crisis management, and strategic and crisis communication planning before examining case studies of a number of real-life crises: organizational crises, natural disasters, accidents, terrorism incidents, health crises, and major crises of credibility.*

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|---|---|---|
| 0101 | Saymin Lee<br>TuTh 9:30am - 10:45am | Seats (Total: 30)<br>SQH 1103 |
| ESG1 | Jonathan Leach<br>MW 12:30pm - 1:45pm<br>*Restricted to students in the Communication Program at USG.* | Seats (Total: 30)<br>BLD3 3220 |

**COMM449B Special Topics in Digital Communication; Communication and Social Media**

*Explores the topics that have arisen around computers, digital technologies, the internet, big data, surveillance capitalism, and network infrastructures.*

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|---|---|---|
| 0101 | Lamia Zia<br>MW 3:30pm - 4:45pm | Seats (Total: 30)<br>EGR 3106 |
| ESG1 | Lamia Zia<br>TuTh 12:30pm - 1:45pm<br>*Restricted to students in the Communication Program at USG.* | Seats (Total: 30)<br>BLD3 3220 |

**COMM449E Special Topics in Digital Communication; Communication, Sport, and Media**

*Explores the topics that have arisen around computers, digital technologies, the internet, big data, surveillance capitalism, and network infrastructures.*

Restrictions: Restricted to COMM majors only. Description: An exploration of cultural and mediated influences on the intersection of sport, society, and communication. The course covers topics such as how cultural values become embedded within sports and sports media, and how factors such as race, gender, national identity, or global diplomacy impact communication about sports.

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|---|---|---|
| 0101 | Maggie Williams<br>MW 2:00pm - 3:15pm | Seats (Total: 30)<br>ASY 3207 |

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|---|---|---|
| 0201 | Maggie Williams | Seats (Total: 30) |
| | MW 3:30pm - 4:45pm | TWS 0221 |

**COMM449F** **Special Topics in Digital Communication; Media Campaign Message Design**

*Explores the topics that have arisen around computers, digital technologies, the internet, big data, surveillance capitalism, and network infrastructures.*

Restriction: Restricted to COMM majors only. In this project-based course, students will learn about media campaigns by topics and design campaigns using different media platforms.

| | | |
|---|---|---|
| 0101 | Soyoung Bae | Seats (Total: 30) |
| | TuTh 2:00pm - 3:15pm | VMH 1203 |

**COMM449G** **Special Topics in Digital Communication; Digital Media & Sports Communication**

*Explores the topics that have arisen around computers, digital technologies, the internet, big data, surveillance capitalism, and network infrastructures.*

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|---|---|---|
| ESG1 | Adam Nixon | Seats (Total: 25) |
| | W 5:00pm - 7:30pm | BLD3 3216 |
| | *Restricted to students in the Communication Program at USG.* | |

**COMM449N** **Special Topics in Digital Communication; Influencer Culture**

*Explores the topics that have arisen around computers, digital technologies, the internet, big data, surveillance capitalism, and network infrastructures.*

Restriction: Must be in Communication program. Be they either renowned persona such as MrBeast, Emma Chamberlain, Ryan Kaji, and Jeffree Star, or those struggling to get attention online, thecentrality of influencers is unquestionable whenever we examine social media today. This course surveys both the history of the idea of "influence" as a cultural and communicative activity, as well as how social media transforms this legacy. Topics addressed will include: "conspicuous consumption," "opinion leaders," and "influentials" in twentieth-century marketing; the role of social media platforms in shaping attention and income; the increasing necessity of transforming one's identity into a personal "brand" to be consumed by others; fame and celebrity on social media; precarity, burnout, and exhaustion in thename of achieving fame; the production of image versus the "reality" behind social media celebrity.

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|---|---|---|
| 0101 | Grant Bollmer | Seats (Total: 30) |
| | MW 5:00pm - 6:15pm | ASY 3207 |

**COMM449P** **Special Topics in Digital Communication; Black Podcasts**

*Explores the topics that have arisen around computers, digital technologies, the internet, big data, surveillance capitalism, and network infrastructures.*

Restrictions: Restricted to COMM majors only. This course examines the cultural production and significance of Black podcasts. Students will examine how podcasts can help us make sense of shifting meanings of race, gender, and sexuality.

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| 0101 | Briana Barner | Seats (Total: 25) |
| | MWF 12:00pm - 12:50pm | SKN 3118 |

**COMM456** **Freedom of Speech & the First Amendment**

*Credit only granted for: COMM498Y or COMM456. Formerly: COMM498Y.*

*Examines the U.S. Supreme Court's rulings on freedom of speech cases as grounded in the First Amendment to the U.S. Constitution. It also considers the political and ideological role of "freedom of speech" as a rhetoric organizing and ordering U.S. political culture.*

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|---|---|---|
| 0101 | Jade Olson | Seats (Total: 30) |
| | TuTh 9:30am - 10:45am | TYD 1101 |

**COMM459H** **Special Topics in Science Communication; Misinformation, Society, and Science Communication**

(Perm req)

*This seminar course is designed to help students learn a variety of topics of science communication.*

Restricted to students in the Departmental Honors program (Departmental BPO) This course explores misinformation and its impact on science communication and public attitudes towards science. We will examine how misinformation spreads in our current media environment, how people form attitudes about science, why people believe misinformation and what it means to be misinformed , and the challenges of correcting misinformation especially for new or uncertain areas of science. We will draw on theory and current science examples such as vaccines, nuclear energy, artificial intelligence, and gene editing.

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|---|---|---|
| 0101 | Rebecca Beets | Seats (Total: 20) |
| | TuTh 9:30am - 10:45am | EDU 2101 |

**COMM460** **Public Life in American Communities, 1634-1900**

*Ways that Americans have used their voice to create public life. Focus is on the diverse social communities that have characterized American life and the place and characteristics of oral discourse in each.*

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|---|---|---|
| 0101 | Carly Woods | Seats (Total: 30) |
| | MW 3:30pm - 4:45pm | TWS 1106 |

**COMM468G** **Seminar in Mediated Communication; Communicating in a Global Society**

*The examination of special topics related to the study of mediated communication.*

Restricted to COMM majors. Are you eager to explore the world without leaving your classroom? Interested in mastering communication across diverse cultural landscapes? This dynamic class is your gateway to understanding and excelling in communication within varied cultural contexts, equipping you with essential skills for today's globalized environment. Ideal course for students planning to work abroad or in cross-cultural settings within the U.S., this course teaches you how to craft compelling narratives that resonate across cultures. By the end of the course, you will have a profound understanding of global communication and the practical skills to apply this knowledge in real-world situations, making you an invaluable asset in any global communication setting.

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| 0101 | Lamia Zia<br>MW 2:00pm - 3:15pm | Seats (Total: 30)<br>EGR 0135 |

**COMM475** **Persuasion**

*Bases of persuasion, with emphasis on recent experimental developments in persuasion.*

This course is restricted to COMM majors only.

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|---|---|---|
| 0101 | Soyoung Bae<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>TWS 0223 |

**COMM476** **Language, Communication, and Action**

*Restriction: Must be in the Communication major.*

*Communication as symbolic action through the study of communication ethics. Emerging ethical principles and decision-making in public discourse, interpersonal communication, organizational communication, public relations, health communication, and crisis communication.*

Retricted to COMM majors only.

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|---|---|---|
| 0101 | Brooke Liu<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>SQH 1117 |
| 0201 | Brooke Liu<br>TuTh 3:30pm - 4:45pm | Seats (Total: 30)<br>SKN 1115 |

**COMM483** **Senior Seminar in Public Relations**

(Perm req)

*Prerequisite: COMM351; and 1 course from (COMM305, COMM306, COMM307, or COMM400). Additional information: Students who enrolled after Fall 2020 should not take COMM400 as a prerequisite.*

*Integration of theory, techniques and research methods into the planning and execution of public relations campaigns for specific organizations. Analysis of research on the case studies of public relations.*

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|---|---|---|
| 0101 | Susan Simon<br>TuTh 9:30am - 10:45am | Seats (Total: 20)<br>KEY 0102 |

**COMM488I** **Communication Portfolio Project; Strategic Interviewing for the Career You Want**

*Preparation of the professional communication portfolio.*

This course introduces students to advanced techniques in interviewing for job opportunities and career progression. This online course focuses on the dynamics of the interview process, the communication theories and best practices behind influence and persuasion, and the communication aptitudes and skills that distinguish top candidates.

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|---|---|---|
| 0101 | Jiawen Doh, Fielding Montgomery<br>Class time/details on ELMs | Seats (Total: 50)<br>ONLINE |

**COMM489** **Topical Research**

(Perm req)

*Individualized research projects conducted with a faculty sponsor.*

**Contact department for information to register for this course.**

**COMM498A** **Seminar; Black Discourse in Digital Communication**

*Present-day communication research.*

| | | |
|---|---|---|
| 0101 | Rianna Walcott<br>TuTh 3:30pm - 4:45pm | Seats (Total: 30)<br>HBK 0105 |

**COMM498J** **Seminar; Strategic Communication**

*Present-day communication research.*

This course presents a system of strategies that underlie communication. It is a practice-based framework with definitions, conditions, risks and rewards that inform the moves and motives of influence professionals. Through a series of interactive lectures, landmark writings, group exercises and classroom simulations, students will learn to decode, defend, apply and ethically manage the ever-present plays of dynamic, media-driven markets.

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|---|---|---|
| 0101 | Nana Kwame Osei Fordjour<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>TWS 0207 |
| ESG1 | Jonathan Leach<br>MW 2:00pm - 3:15pm<br>*Restricted to students in the Communication Program at USG.* | Seats (Total: 30)<br>BLD3 3220 |

**COMM498R** **Seminar; Risk Communication**

*Present-day communication research.*

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|---|---|---|
| 0101 | Jiyoun Kim | Seats (Total: 30) |
| | MW 2:00pm - 3:15pm | SKN 1115 |

**COMM630** **Seminar in Public Relations Management**

*Credit only granted for: COMM630 or JOUR630. Formerly: JOUR630.*

*Relationship of public relations management to organizational structure and communication functions. Objectives, planning, staffing, budgeting, administering, and evaluation of public relations programs.*

| | | |
|---|---|---|
| 0101 | Ganga Dhanesh | Seats (Total: 15) |
| | Th 3:30pm - 6:30pm | SKN 2127 |

**COMM652** **Contemporary Rhetorical Theory**

*Formerly: SPCH652.*

*A study of twentieth century theories of rhetoric. Special attention will be devoted to Richard Weaver, Kenneth Burke, Lloyd Bitzer, Ernest Bormann, Walter Fisher, and the continental theorists of communication such as Chaim Perelman and Jurgen Habermas.*

| | | |
|---|---|---|
| 0101 | Damien Pfister | Seats (Total: 15) |
| | Tu 3:30pm - 6:30pm | SKN 2127 |

**COMM686** **Teaching Communication**

*Formerly: SPCH686.*

*Principles of effective teaching--content and process--in the college communication classroom.*

| | | |
|---|---|---|
| 0101 | Melissa Lucas | Seats (Total: 30) |
| | W 12:00pm - 1:00pm<br>Class time/details on ELMs | SKN 3117<br>ONLINE |
| | *Alternating face-to-face/online class meeting. Please see instructor fo details.* | |

**COMM688** **Communication Field Experience**

(Perm req)

*Applications of communication principles and research in professional communication settings.*

**Contact department for information to register for this course.**

**COMM698** **Special Problems in Communication**

(Perm req)

**Contact department for information to register for this course.**

**COMM698M** **Special Problems in Communication; Colloquium in Digital Studies**

Cross-listed with COMM698M. Credit only granted for MITH729 or COMM698M.

| | | |
|---|---|---|
| 0101 | Damien Pfister<br>F 3:00pm - 5:00pm | Seats (Total: 25)<br>SKN 3115 |

**COMM700** **Introduction to Graduate Study in Communication**

*Restriction: Must be in Communication (Doctoral) program. Formerly: SPCH700.*

*Basic skills in communication research.*

| | | |
|---|---|---|
| 0101 | Sun Young Lee<br>M 3:30pm - 6:30pm | Seats (Total: 30)<br>SKN 2127 |

**COMM711** **Historical/Critical Methods in Communication Research**

*Prerequisite: COMM700; or permission of instructor. Formerly: SPCH711.*

*Methods for historical and critical research in communication. Formulation of significant research questions, systematic collection of bibliographic and phenomenal information, formulating substantial claims, organizing and writing research for disciplinary outlets.*

| | | |
|---|---|---|
| 0101 | Shawn Parry-Giles<br>Th 3:30pm - 6:30pm | Seats (Total: 15)<br>SKN 3118 |

**COMM715** **Advanced Qualitative Methods in Communication Research**

*Advanced data analysis of qualitative data in Communication research. In-field research and techniques for analysis of data from in-field work.*

| | | |
|---|---|---|
| 0101 | Carina Zelaya<br>W 3:30pm - 6:30pm | Seats (Total: 15)<br>SKN 2127 |

**COMM730** **Seminar in Health Communication**

*Formerly: SPCH730.*

*Communication processes in health care and promotion.*

| | | |
|---|---|---|
| 0101 | Kang Namkoong<br>Tu 4:45pm - 7:45pm | Seats (Total: 15)<br>SKN 3117 |

**COMM798** **Independent Study**

(Perm req)

*An individual course designed for intensive study or research of problems in communication.*

**Contact department for information to register for this course.**

**COMM799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**COMM888** **Doctoral Practicum in Communication**

(Perm req)

*Analysis of professional activity through personal observation. Evaluation of the purpose, process, effectiveness, and efficiency of professional activity. Recommendations for training and further research.*

**Contact department for information to register for this course.**

**COMM889** **Doctoral Tutorial in Communication**

(Perm req)

*Individual research in communication.*

**Contact department for information to register for this course.**

**COMM898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**COMM899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# CPBE College Park Scholars-Business, Society, and Economy — Fall 2024

**CPBE100** **College Park Scholars: Business, Society & the Economy First-Year Colloquium**

*Restriction: Students must be matriculated into the College Park Scholars Business, Society & the Economy (CPBE) program.*

*Introductory colloquium: Examination of issues related to business, society and the economy.*

| | | | |
|---|---|---|---|
| 0101 | Oliver Schlake | Seats (Total: 95) | |
| | M 5:00pm - 6:15pm | ESJ 1202 | |

**CPBE225** **Enterprise Communications**

*Prerequisite: CPBE100. Restriction: Must be enrolled in College Park Scholars' Business, Society and the Economy (CPBE) program. Formerly: CPSP220.*

*Examines basic interpersonal communication processes within written and oral channels, with practical applications for the business environment.*

| | | | |
|---|---|---|---|
| 0101 | Ira Koretsky | Seats (Total: 38) | |
| | MW 11:00am - 12:15pm | VMH 1207 | |
| | W 5:00pm - 6:50pm | VMH 1207 | Lab |

| | | | |
|---|---|---|---|
| 0102 | Ira Koretsky | Seats (Total: 38) | |
| | MW 9:30am - 10:45am | VMH 1207 | |
| | W 5:00pm - 6:50pm | SQH 1120 | Lab |

# CPCV College Park Scholars-Civic Engagement for Social Good — Fall 2024

**CPCV100** **College Park Scholars: Civic Engagement for Social Good First-Year Colloquium I**

*Restriction: Must be in the College Park Scholars-Civic Engagement for Social Good (CPCV) program. Credit only granted for: BSCV181 or CPCV100. Formerly: BSCV181.*

*Introductory colloquium: Examination of issues related to civic engagement.*

| | | |
|---|---|---|
| 0101 | Julie Randolph | Seats (Total: 35) |
| | Tu 2:00pm - 3:15pm | CCC 1111 |
| 0201 | Julie Randolph | Seats (Total: 35) |
| | Tu 3:30pm - 4:45pm | CCC 1111 |

**CPCV225** **Introduction to Civic Engagement for Social Good**

*Restriction: Must be in the College Park Scholars-Civic Engagement for Social Good (CPCV) program. Credit only granted for: BSCV191or CPCV225. Formerly: BSCV191.*

*Foundational concepts and principles of community engagement and social change.*

| | | |
|---|---|---|
| 0101 | Korey Rothman | Seats (Total: 80) |
| | MW 4:15pm - 5:30pm | ESJ 2208 |

# CPDJ College Park Scholars-Data Justice — Fall 2024

**CPDJ100** **College Park Scholars: Data Justice First-Year Colloquium I**

*Restriction: Must be in College Park Scholars Data Justice Program (CPDJ).*

*Colloquium I, the first course in the College Park Scholars Data Justice program curriculum, will introduce students to a wide range of information issue areas, with an overarching theme for them to consider opportunities to improve the world by making data less biased and more accessible. The deliverables are intended as low-risk opportunities to write or design in response to the topics, and to engage students every week in creating something in response to what they are learning.*

| | | |
|---|---|---|
| 0101 | Andrew Fellows | Seats (Total: 75) |
| | Th 2:00pm - 3:15pm | CCC 1100 |

# CPET College Park Scholars-Environment, Technology & Economy — Fall 2024

**CPET100** **College Park Scholars: Environment, Technology & Economy First-Year Colloquium I**

*Restriction: Students must be enrolled in the College Park Scholars Environment, Technology & Economy (CPET) program.*

*Introductory colloquium: Examination of issues related to the convergence of the environment, technology and the economy.*

| | | |
|---|---|---|
| 0101 | Tim Knight, Dani Moore | Seats (Total: 96) |
| | Th 4:10pm - 5:30pm | CCC 1100 |

**CPET200** **College Park Scholars: Environment, Technology & Economy Second-Year Colloquium**

*Prerequisite: CPET101. Restriction: Students must be enrolled in the College Park Scholars Environment, Technology & Economy (CPET) program.*

*Advanced colloquium: Continued examination of issues related to sustainable development.*

| | | |
|---|---|---|
| 0101 | Dani Moore, Tim Knight | Seats (Total: 96) |
| | W 4:10pm - 5:30pm | CCC 1100 |

# CPGH College Park Scholars-Global Public Health — Fall 2024

**CPGH100** **College Park Scholars: Global Public Health First-Year Colloquium I**

*Restriction: Students must be enrolled in the College Park Scholars Global Public Health (CPGH) program.*

*Introductory colloquium: Examination of factors that determine the health status of populations around the world.*

| | | |
|---|---|---|
| 0101 | Janay Johnson, Angshuman Kashyap | Seats (Total: 96) |
| | M 5:00pm - 6:15pm | CCC 1205 |

**CPGH200** **College Park Scholars: Global Public Health Second-Year Colloquium**

*Prerequisite: CPGH101. Restriction: Students must be enrolled in the College Park Scholars Global Public Health (CPGH) program.*

*Building on knowledge and skills gained from the first-year colloquia, students will develop public health interventions that address a public health issue of a particular community.*

| | | |
|---|---|---|
| 0101 | Angshuman Kashyap, Janay Johnson | Seats (Total: 95) |
| | W 2:00pm - 3:15pm | CCC 1100 |

# CPJT College Park Scholars-Justice and Legal Thought Fall 2024

**CPJT100** **College Park Scholars: Justice & Legal Thought: First-Year Colloquium**

*Restriction: Students must be enrolled in the College Park Scholars Justice & Legal Thought (CPJT) program.*

*Students will gain an experiential understanding of law and justice by investigating concepts and frameworks of justice and apply them to real-world experience.*

| | | |
|---|---|---|
| 0101 | Justine DeCamillis | Seats (Total: 90) |
| | W 5:00pm - 6:15pm | CCC 1205 |

**CPJT200** **Justice and legal Thought Second Year Colloquium**

*Restriction: Students must be enrolled in the College Park Scholars Justice and Legal Thought (CPJT) program. Additional information: When combined with the first year CPJT colloquia, students will learn how to research issues discussed and debated throughout year one.*

*Advanced colloquium for second year students related to research skill development*

| | | |
|---|---|---|
| 0101 | Justine DeCamillis | Seats (Total: 90) |
| | Tu 5:00pm - 6:00pm | CCC 1205 |

# CPMS College Park Scholars-Media, Self and Society Fall 2024

**CPMS100** **College Park Scholars: Media, Self & Society First-Year Colloquium I**

*Restriction: Students must be enrolled in the College Park Scholars Media, Self & Society (CPMS) program.*

*Introductory colloquium: Examination of issues related to the media.*

| | | |
|---|---|---|
| 0101 | Alison Burns, Carole Lee | Seats (Total: 90) |
| | M 2:00pm - 3:00pm | CCC 1205 |

**CPMS225** **Analyzing Media Practice through Theory**

*Prerequisite: CPMS100. Restriction: Must be in the Scholars Media, Self & Society Program. Formerly: CPSP222.*

*Media analysis investigating patterns of ownership, the working of media organizations, patterns of coverage and the nature of audiences.*

| | | |
|---|---|---|
| 0101 | Alison Burns | Seats (Total: 90) |
| | TuTh 12:30pm - 1:45pm | CCC 1205 |

| | | |
|---|---|---|
| 0201 | Alison Burns<br>TuTh 3:30pm - 4:45pm | Seats (Total: 78)<br>TWS 1310 |

**CPMS230** **College Park Scholars: Media, Self & Society - Internship Practicum**

*Prerequisite: CPMS101. Restriction: Students must be enrolled in the College Park Scholars Media, Self & Society (CPMS) program.*

*Supervised internship project in an area related to media, self and society.*

| | | |
|---|---|---|
| 0101 | Alison Burns<br>Contact instructor or department for details. | Seats (Total: 30) |

**CPMS240** **College Park Scholars: Media, Self & Society - Service-Learning Practicum**

*Prerequisite: CPMS101. Restriction: Students must be enrolled in the College Park Scholars Media, Self & Society (CPMS) program.*

*Supervised Service-Learning project in an area related to media, self and society.*

| | | |
|---|---|---|
| 0101 | Alison Burns, Carole Lee<br>Contact instructor or department for details. | Seats (Total: 20) |

# CPPL College Park Scholars-Public Leadership Fall 2024

**CPPL100** **College Park Scholars: Public Leadership First-Year Colloquium I**

*Restriction: Students must be enrolled in the College Park Scholars Public Leadership (CPPL) program.*

*Introductory colloquium: Examination of issues related to public leadership.*

| | | |
|---|---|---|
| 0101 | Susannah Washburn, Kelly Brower<br>W 3:00pm - 4:15pm | Seats (Total: 45)<br>CCC 1111 |
| 0201 | Kelly Brower, Susannah Washburn<br>W 4:30pm - 5:45pm | Seats (Total: 45)<br>CCC 1111 |

**CPPL200** **College Park Scholars: Public Leadership - Applied Leadership Capstone I**

*Prerequisite: CPPL101. Restriction: Students must be enrolled in the College Park Scholars Public Leadership (CPPL) program.*

*Planning and initiation of team, community-based-learning projects.*

Alternating face-to-face/online meeting. See instructor for details.

| | | |
|---|---|---|
| 0101 | Kelly Brower<br>Th 4:00pm - 5:15pm | Seats (Total: 75)<br>PLS 1140 |

| | | |
|---|---|---|
| 0102 | Kelly Brower | Seats (Total: 5) |
| | Contact instructor or department for details. | |

# CPSA College Park Scholars-Arts Fall 2024

**CPSA100** **College Park Scholars: Arts First-Year Colloquium I**

*Restriction: Students must be matriculated into the College Park Scholars Arts (CPSA) program.*

*Introductory colloquium: Aesthetic, intellectual and personal examination of the arts.*

| | | |
|---|---|---|
| 0101 | Heather-Erin Bremenstuhl, Harold Burgess | Seats (Total: 95) |
| | M 5:30pm - 6:45pm | CCC 1100 |

**CPSA149** **College Park Scholars: Arts Service-Learning Outreach**

*Service-Learning outreach to Prince George's County schools and non-profit agencies.*

| | | |
|---|---|---|
| 0101 | Harold Burgess | Seats (Total: 10) |
| | Th 5:00pm - 7:00pm | Location: TBA |

**CPSA200** **College Park Scholars: Arts Second-Year Colloquium I**

*Prerequisite: CPSA101. Restriction: Students must be matriculated into the College Park Scholars Arts (CPSA) program. Additional information: When paired with successful completion of CPSA 240, 250 or 260, students will earn General Education Scholarship-in-Practice credit.*

*Advanced colloquium I: Examination of the arts in society; and preparation for "Scholarship-in-Practice" project.*

| | | |
|---|---|---|
| 0101 | Heather-Erin Bremenstuhl, Harold Burgess | Seats (Total: 75) |
| | Tu 5:30pm - 6:45pm | CCC 1100 |

# CPSF College Park Scholars-Life Sciences Fall 2024

**CPSF100** **College Park Scholars: Life Sciences First-Year Colloquium I**

*Restriction: Students must be enrolled in the College Park Scholars Life Sciences (CPSF) program.*

*Introductory colloquium: Examination of issues related to the life sciences.*

| | | |
|---|---|---|
| 0101 | Erin Thomson, Nicholas Fletcher | Seats (Total: 96) |
| | W 3:30pm - 5:00pm | ESJ 1202 |

**CPSF200** **College Park Scholars: Life Sciences Second-Year Colloquium**

*Prerequisite: CPSF101. Restriction: Must be in the College Park Scholars Life Sciences program. Credit only granted for: CPSF200 or CPSP218L. Formerly: CPSP218L.*

*This course is the final of a three-semester sequence within the College Park Scholars- Life Sciences Program. In the first semester, our content focused on community; we built community as a program of unique individuals to create a common identity and discussed the ways in which the science community exists. The second semester allowed us to explore the life sciences through our lenses of curiosity; we asked big questions and moved toward big answers. This semester is focused on engagement. We will take time to be fully present in the life sciences community and learn why it is important to gain practical knowledge and experiences to further the goals and aims of science.*

| | | |
|---|---|---|
| 0101 | Erin Thomson, Nicholas Fletcher<br>W 3:30pm - 5:00pm | Seats (Total: 90)<br>Location: TBA |

# CPSG College Park Scholars-Science and Global Change Fall 2024

**CPSG100** **College Park Scholars: Science & Global Change First-Year Colloquium I**

*Restriction: Students must be enrolled in the College Park Scholars Science & Global Change (CPSG) program.*

*Introductory colloquium: Examination of issues related to science and global change.*

| | | |
|---|---|---|
| 0101 | John Merck, Thomas Holtz<br>Tu 3:30pm - 4:50pm | Seats (Total: 92)<br>CCC 1205 |

**CPSG200** **College Park Scholars: Science & Global Change Second-Year Colloquium**

*Prerequisite: CPSG101. Restriction: Students must be enrolled in the College Park Scholars Science & Global Change (CPSG) program.*

*Advanced colloquium: Continued examination of issues related to science and global change.*

| | | |
|---|---|---|
| 0101 | Thomas Holtz, John Merck<br>M 3:30pm - 4:50pm | Seats (Total: 90)<br>CCC 1205 |

# CPSN College Park Scholars-International Studies Fall 2024

**CPSN100** **College Park Scholars: International Studies First-Year Colloquium I**

*Restriction: Students must be enrolled in the College Park Scholars International Studies (CPSN) program.*

*Introductory colloquium: Examination of issues related to international studies.*

| | | |
|---|---|---|
| 0101 | Stacy Kosko, Hansol Kwak<br>W 3:00pm - 4:15pm | Seats (Total: 75)<br>CCC 1205 |

**CPSN230** **College Park Scholars: International Studies - Internship Practicum**

*Prerequisite: CPSN101. Restriction: Students must be enrolled in the College Park Scholars International Studies (CPSN) program.*

*Supervised internship project in an area related to international studies.*

| | | |
|---|---|---|
| 0101 | Sarah Kilmer | Seats (Total: 20) |
| | Contact instructor or department for details. | |

**CPSN240** **College Park Scholars: International Studies - Service-Learning Practicum**

*Prerequisite: CPSN101. Restriction: Students must be enrolled in the College Park Scholars International Studies (CPSN) program.*

*Supervised Service-Learning project in an area related to international studies.*

| | | |
|---|---|---|
| 0101 | Sarah Kilmer | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**CPSN250** **College Park Scholars: International Studies - Research Practicum**

*Prerequisite: CPSN101. Restriction: Students must be enrolled in the College Park Scholars International Studies (CPSN) program.*

*Supervised research in an area related to international studies.*

| | | |
|---|---|---|
| 0101 | Sarah Kilmer | Seats (Total: 2) |
| | Contact instructor or department for details. | |

## CPSP College Park Scholars Program Fall 2024

**CPSP218N** **College Park Scholars Second-Year Colloquium I**

*Colloquium for specific College Park Scholars Program.*

| | | |
|---|---|---|
| 0101 | Stacy Kosko | Seats (Total: 70) |
| | Tu 3:30pm - 4:45pm | CCC 1100 |

**CPSP239** **Practicum: Internship**

*Supervised internship in interest area related to the theme of the students' College Park Scholars program.*

**Contact department for information to register for this course.**

**CPSP239A** **Practicum: Internship**

*Supervised internship in interest area related to the theme of the students' College Park Scholars program.*

| | | |
|---|---|---|
| 0101 | Harold Burgess, Heather-Erin Bremenstuhl | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**CPSP239P** **Practicum: Internship; Individual Practicum**

(Perm req)

*Supervised internship in interest area related to the theme of the students' College Park Scholars program.*

| | | |
|---|---|---|
| 0101 | Kelly Brower | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**CPSP249P** **Practicum: Service-Learning**

*Supervised Service-Learning project in area related to the theme of the students' College Park Scholars program.*

| | | |
|---|---|---|
| 0101 | Kelly Brower | Seats (Total: 1) |
| | Contact instructor or department for details. | |

**CPSP259J** **Practicum: Research; Media, Self, and Society**

*Supervised research project in interest area related to the students' College Park Scholars program.*

Restricted to students in College Park Scholars Media, Self, and Society Program

**Contact department for information to register for this course.**

**CPSP269** **Practicum: Peer Teaching**

*Supervised peer teaching in students' College Park Scholars program.*

**Contact department for information to register for this course.**

**CPSP269B** **Practicum: Peer Teaching**

*Supervised peer teaching in students' College Park Scholars program.*

**Contact department for information to register for this course.**

**CPSP269C** **Practicum: Peer Teaching**

*Supervised peer teaching in students' College Park Scholars program.*

| | | |
|---|---|---|
| 0101 | Korey Rothman, Julie Randolph | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**CPSP269E** **Practicum: Peer Teaching**

*Supervised peer teaching in students' College Park Scholars program.*

**Contact department for information to register for this course.**

**CPSP269F** **Practicum: Peer Teaching**

*Supervised peer teaching in students' College Park Scholars program.*

**Contact department for information to register for this course.**

**CPSP269J** **Practicum: Peer Teaching**

*Supervised peer teaching in students' College Park Scholars program.*

**Contact department for information to register for this course.**

**CPSP269N** **Practicum: Peer Teaching**

*Supervised peer teaching in students' College Park Scholars program.*

**Contact department for information to register for this course.**

**CPSP339** **Advanced Practicum: Internship**

*Independent study designed for students who wish to extend in greater depth and detail projects begun in sophomore year. Subject varies. Overseen by faculty director or mentor.*

**Contact department for information to register for this course.**

**CPSP339J** **Advanced Practicum: Internship; Media, Self and Society**

*Independent study designed for students who wish to extend in greater depth and detail projects begun in sophomore year. Subject varies. Overseen by faculty director or mentor.*

**Contact department for information to register for this course.**

**CPSP339P** **Advanced Practicum: Internship**

*Independent study designed for students who wish to extend in greater depth and detail projects begun in sophomore year. Subject varies. Overseen by faculty director or mentor.*

| | | |
|---|---|---|
| 0101 | Susannah Washburn | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**CPSP369A** **Advanced Practicum: Peer Teaching; Arts**

*Supervised advanced practicum in peer instruction.*

**Contact department for information to register for this course.**

**CPSP369E** **Advanced Practicum: Peer Teaching**

*Supervised advanced practicum in peer instruction.*

**Contact department for information to register for this course.**

**CPSP369G** **Advanced Practicum: Peer Teaching**

*Supervised advanced practicum in peer instruction.*

**Contact department for information to register for this course.**

**CPSP369J** **Advanced Practicum: Peer Teaching**

*Supervised advanced practicum in peer instruction.*

| | | |
|---|---|---|
| 0101 | Carole Lee | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**CPSP369L** **Advanced Practicum: Peer Teaching; Life Sciences**

*Supervised advanced practicum in peer instruction.*

**Contact department for information to register for this course.**

**CPSP369N** **Advanced Practicum: Peer Teaching; International Studies**

*Supervised advanced practicum in peer instruction.*

**Contact department for information to register for this course.**

**CPSP369P** **Advanced Practicum: Peer Teaching; Public Leadership**

*Supervised advanced practicum in peer instruction.*

**Contact department for information to register for this course.**

**CPSP369T** **Advanced Practicum: Peer Teaching; Science, Technology, and Society**

(Perm req)

*Supervised advanced practicum in peer instruction.*

**Contact department for information to register for this course.**

**CPSP388E** **Advanced Special Topics in College Park Scholars; Advanced Special Topics in College Park Scholars**

*Interdisciplinary topics of special interest to College Park Scholars, such as legacies of the cold war, environmental ethics, women in leadership, and other timely issues. Projects build on previous work in College Park Scholars.*

Independent study to allow continuation of Connection Project from CPET101.

**Contact department for information to register for this course.**

# CPSS College Park Scholars-Science, Technology and Society Fall 2024

**CPSS100** **College Park Scholars: Science, Technology & Society First-Year Colloquium I**

*Restriction: Students must be enrolled in the College Park Scholars Science, Technology & Society (CPSS) program.*

*Introductory colloquium: Examination of issues related to science, technology and society.*

| | | |
|---|---|---|
| 0101 | David Tomblin, Christine Alexander | Seats (Total: 90) |
| | M 3:15pm - 4:55pm | CCC 1100 |

**CPSS220** **The Future of Communicating Science**

*Restriction: Must be in the College Park Scholars Science, Technology or Society program or have permission of the program.*

*How can scientists communicate their work effectively? The field of science communication ventures that the answer is not simply a matter of improving capacity (e.g., because people lack scientific information, scientists lack communication skills, or both). Rather, it calls for sustained collaboration and empathy between laypersons and experts. In this hands-on, experiential course, we use a model of cultural competency to put forth solutions to bridge the expert-lay divide. We investigate typical venues in which science is communicated (museums, YouTube videos, federal agency websites, and much much more) and study best practices for communication. Then we explore emerging venues that support sustained contact between so-called "lay citizens" and scientific or technical experts (dance/improv techniques, ethnographic methods and citizen science). Students learn to use cross-cultural perspectives as a basis to pilot and test ways of strengthening relationships and improving communication.*

| | | |
|---|---|---|
| 0101 | Nicole Mogul | Seats (Total: 20) |
| | TuTh 11:00am - 12:15pm | CBD 1140 |

**CPSS225** **College Park Scholars Capstone: Science, Technology, and Society**

*Prerequisite: CPSS100. Restriction: Must be in the College Park Scholars Science, Technology & Society (CPSS) program. Formerly: CPSP227.*

*Exploration and understanding of ways science and technology shape and are shaped by society.*

| | | |
|---|---|---|
| 0101 | Kuan-Hung Lo | Seats (Total: 20) |
| | TuTh 12:30pm - 1:45pm | CCC 1105 |

**CPSS240** **College Park Scholars: Science, Technology & Society - Service-Learning Practicum**

*Restriction: Matriculation into the College Park Scholars Science, Technology & Society (CPSS) program; or permission of instructor.*

*Supervised Service-Learning practicum in issues related to science, technology and society.*

Most of the class times will be spent at area Prince George's schools with partnering robotics teams. Consult the class requirements and locations provided in the syllabus at the beginning of the class. This course requires a $61 background check fee for working in Prince Georges County K-12 schools.

| | | |
|---|---|---|
| 0201 | Kuan-Hung Lo | Seats (Total: 25) |
| | TuTh 3:30pm - 4:45pm | CCC 1105 |

**CPSS340** **College Park Scholars: Infrastructure and Society**

*Restriction: Must be currently enrolled in a College Park Scholars program. Credit only granted for: CPSP349T or CPSS340. Formerly: CPSP349T.*

*One of the most important, and underappreciated, aspects of our society is its infrastructure (roads, buildings, communication systems, water delivery systems, sanitation systems, energy systems, etc.). We often take for granted the services infrastructure bring us. As a consequence, the United States, which at one time was a world leader in creating infrastructure, is experiencing an infrastructure crisis. Furthermore, not everyone experiences this issue equally. This course is designed to identify the root causes of the crisis. You will explore emerging social, political, legal, cultural, and social justice issues associated with the building and maintenance of infrastructure from the perspective of Science and Technology Studies (STS) and engineers. You will work with a volunteer corps of professional engineers from a variety of disciplines on a service-learning project designed to assess the safety and vitality of infrastructure.*

| | | | |
|---|---|---|---|
| 0101 | David Tomblin | Seats (Total: 20) | |
| | TuTh 2:00pm - 3:15pm | CCC 1115 | |

# CRLN Carillon Communities Fall 2024

**CRLN369** **Carillon Communities Practicum: Internship**

*Carillon Student Interns will work in collaboration with program staff to manage Carillon's social media, weekly newsletters, and outreach. This internship offers an opportunity for students to gain practical experience in social media marketing, content creation, and community engagement within a higher education setting.*

Repeatable to 4 credits. Carillon Student Interns will work in collaboration with program staff to manage Carillon's social media, weekly newsletters, and outreach. This internship offers an opportunity for students to gain practical experience in social media marketing, content creation, and community engagement within a higher education setting.

| | | | |
|---|---|---|---|
| 0101 | Leeanne Dunsmore, Amina Lampkin | Seats (Total: 3) | |
| | Contact instructor or department for details. | | |

# DANC Dance Fall 2024

**DANC109** **Choreography I: Improvisation**

(Perm req)

*An introduction to the process of spontaneous movement discovery involving solo and group movement experiences.*

Prerequisite: by permission of department. Students must pay a $25.00 lab fee.

| | | | |
|---|---|---|---|
| 5501 | Sara Pearson | Seats (Total: 12) | |
| | TuTh 11:00am - 12:15pm | PAC 1912 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**DANC128** **Fundamentals of Ballet**

*Introduction to ballet technique and terminology for the beginning student.*

Students must pay a $25 lab fee.

| | | | |
|---|---|---|---|
| 5501 | Peter Pattengill | Seats (Total: 15) | |
| | TuTh 12:30pm - 1:45pm | PAC 1908 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**DANC138J** **Global Dance Forms; Afro Jazz**

*Movement course. Traditional dances and music of selected cultures.*

Students must pay a $25 lab fee

| | | | |
|---|---|---|---|
| 5501 | Kaela Lawrence | Seats (Total: 20) | |
| | TuTh 3:30pm - 4:45pm | PAC 3732 | Lab |
| | Contact instructor or department for details. | | |

**DANC138L** **Global Dance Forms; Latin Dance**

*Movement course. Traditional dances and music of selected cultures.*

Students must pay a $25 course fee.

| | | | |
|---|---|---|---|
| 5501 | Mher Kandoyan | Seats (Total: 25) | |
| | MW 3:00pm - 4:15pm | PAC 1908 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**DANC138P** **Global Dance Forms; Hip Hop**

*Movement course. Traditional dances and music of selected cultures.*

Students must pay a $25 lab fee.

| | | | |
|---|---|---|---|
| 5501 | Ama Law | Seats (Total: 20) | |
| | MW 3:00pm - 4:15pm | PAC 1912 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**DANC148** **Fundamentals of Modern Dance**

*Introduction to modern dance with emphasis on the development of fundamental movement skills.*

Students must pay a $25 lab fee.

| | | | |
|---|---|---|---|
| 5502 | Patrik Widrig | Seats (Total: 30) | |
| | MW 11:00am - 12:15pm | PKT 2102 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

| | | | | |
|---|---|---|---|---|
| 5504 | Kevin Clark | Seats (Total: 30) | | |
| | TuTh 12:30pm - 1:45pm | PAC 1912 | Lab | |
| | Class time/details on ELMs | ONLINE | Lab | |

**DANC158** **Fundamentals of Jazz**

*Introduction to the jazz style in dance for the beginning student.*

Students must pay a $25 lab fee

| | | | | |
|---|---|---|---|---|
| 5501 | Christina Collins | Seats (Total: 20) | | |
| | TuTh 3:30pm - 4:45pm | PAC 1908 | Lab | |
| | Contact instructor or department for details. | | | |

**DANC179** **Movement Integration**

(Perm req)

*Conditioning and re-patterning techniques for achieving integrated movement.*

Students must pay a $25.00 lab fee.

| | | | | |
|---|---|---|---|---|
| 5501 | Adriane Fang | Seats (Total: 20) | | |
| | TuTh 2:00pm - 3:15pm | PAC 1912 | Lab | |
| | Class time/details on ELMs | ONLINE | Lab | |

**DANC199** **Practicum in Choreography, Production and Performance I**

(Perm req)

*Choreography, production, and performance of student works, both on and off campus.*

**Contact department for information to register for this course.**

**DANC200** **Introduction to Dance**

*A study of dance as a form of communication and as an art form; a survey of the theories and styles of dance, and their relationships to other art forms.*

| | | | | |
|---|---|---|---|---|
| 0101 | Sara Pearson | Seats (Total: 15) | | |
| | MW 1:00pm - 2:15pm | PAC 1611 | | |
| | *This section will focus on collaboration and creative Process and discovering your unique voice and vision.* | | | |
| 0201 | Jalen Rose | Seats (Total: 20) | | |
| | TuTh 12:30pm - 1:45pm | PAC 3736 | | |
| 0301 | Angela Smith | Seats (Total: 25) | | |
| | TuTh 11:00am - 12:15pm | PAC 3736 | | |

| | | | |
|---|---|---|---|
| 0401 | Zoe Walders<br>TuTh 2:00pm - 3:15pm | Seats (Total: 25)<br>HBK 1112 | |
| FC01 | Susan Miller<br>TuTh 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>PAC 1809 | |

**DANC200S** **Introduction to Dance**

*A study of dance as a form of communication and as an art form; a survey of the theories and styles of dance, and their relationships to other art forms.*

Restricted to College Park Scholars - Arts.

| | | | |
|---|---|---|---|
| 0201 | Jalen Rose<br>TuTh 12:30pm - 1:45pm | Seats (Total: 5)<br>PAC 3736 | |

**DANC218** **Modern Dance I**

(Perm req)

*Development of heightened body awareness, breath support, dynamic alignment, and spatial awareness. Focus on rhythmic clarity and musicality.*

Prerequisite: permission of department. Students must pay a $25.00 lab fee.

| | | | |
|---|---|---|---|
| 5501 | Patrik Widrig, Ama Law<br>MWF 1:00pm - 2:30pm<br>Class time/details on ELMs | Seats (Total: 17)<br>PAC 1912<br>ONLINE | <br>Lab<br>Lab |

**DANC219** **Modern Dance II**

(Perm req)

*Continuation of the elements addressed in DANC218 with an added focus on momentum, the use of counter-tension, stability/mobility, suspension, and dynamic range.*

Prerequisite: DANC218 and permission of department. Students must pay a $25.00 lab fee.

| | | | |
|---|---|---|---|
| 5501 | Patrik Widrig, Ama Law<br>MWF 1:00pm - 2:30pm | Seats (Total: 10)<br>PAC 1912 | <br>Lab |

**DANC228** **Ballet I**

(Perm req)

*Barre and center work for alignment, strength, flexibility and coordination. Introduction to ballet terminology.*

Students must pay a $25.00 lab fee. Email Susan Miller at smille13@umd.edu for permission to register.

| | | | |
|---|---|---|---|
| 5501 | Breeanah Breeden | Seats (Total: 10) | |
| | TuTh 2:00pm - 3:15pm | PAC 1908 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**DANC229** **Ballet II**

(Perm req)

*Continuation of DANC228.*

Students must pay a $25.00 lab fee. Email Susan Miller at smille13@umd.edu for permission to register.

| | | | |
|---|---|---|---|
| 5501 | Breeanah Breeden | Seats (Total: 10) | |
| | TuTh 2:00pm - 3:15pm | PAC 1908 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**DANC299** **Practicum in Choreography, Production and Performance II**

(Perm req)

*Continuation of DANC199.*

**Contact department for information to register for this course.**

**DANC304** **Dance Education I: Foundations**

(Perm req)

*Restriction: Permission of ARHU-Dance department.*

*Organization and content of the studio dance class. Structuring developmentally appropriate dance experiences for students ages 3-18.*

| | | | |
|---|---|---|---|
| 0101 | Crystal Davis | Seats (Total: 15) | |
| | MW 1:00pm - 2:15pm | PAC 1908 | |

**DANC309** **Choreography III: Dance Composition**

(Perm req)

*Exploration of the structural elements of dance composition.*

| | | | |
|---|---|---|---|
| 5501 | Alvin Mayes | Seats (Total: 17) | |
| | MW 3:00pm - 4:45pm | PAC 1611 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**DANC318** **Modern Dance III**

(Perm req)

*Continuation of the elements addressed in DANC219 with an added focus on off-verticality, spirals, complex level changes, more complex and extended phrasing, responsiveness to accompaniment, vocalization.*

Prerequisite: DANC219 and permission of department. Students must pay a $25.00 lab fee.

| | | | |
|---|---|---|---|
| 5501 | Adriane Fang, Patrik Widrig | Seats (Total: 11) | |
| | MWF 9:00am - 10:30am | PAC 1912 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**DANC319** **Modern Dance IV**

(Perm req)

*Continuation of the elements addressed in DANC318 with an added focus on movement subtlety and complexity, and stylistic demands.*

Prerequisite: DANC318 and permission of department. Students must pay a $25.00 lab fee.

| | | | |
|---|---|---|---|
| 5501 | Adriane Fang, Patrik Widrig | Seats (Total: 14) | |
| | MWF 9:00am - 10:30am | PAC 1912 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**DANC328** **Ballet III**

(Perm req)

*Execution of the vocabulary of ballet movement with technical accuracy.*

Students must pay a $25 lab fee. Email Susan Miller at smille13@umd.edu for permission to register.

| | | | |
|---|---|---|---|
| 5501 | Kendra Portier | Seats (Total: 10) | |
| | TuTh 11:00am - 12:15pm | PAC 1908 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**DANC329** **Ballet IV**

(Perm req)

*Continuation of DANC328.*

Students must pay a $25 lab fee. Email Susan Miller at smille13@umd.edu for permission to register.

| | | | |
|---|---|---|---|
| 5501 | Kendra Portier | Seats (Total: 10) | |
| | TuTh 11:00am - 12:15pm | PAC 1908 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**DANC386** **Experiential Learning**

(Perm req)

*Restriction: Junior standing or higher; and permission of ARHU-School of Theatre, Dance & Performance Studies department.*

**Contact department for information to register for this course.**

**DANC398 Directed Studies in Dance**

(Perm req)

**Contact department for information to register for this course.**

**DANC399 Practicum in Choreography, Production and Performance III**

(Perm req)

*Continuation of DANC299.*

Prerequisite: DANC 299.

| | | | |
|---|---|---|---|
| 0101 | Adriane Fang<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE | |
| 0201 | Sara Pearson<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE | |
| 0301 | Maura Keefe<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE | |
| 0401 | Alvin Mayes<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE | |
| 0501 | Instructor: TBA<br>Class time/details on ELMs | Seats (Total: 15)<br>ONLINE | |
| 0601 | Kendra Portier<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE | Lab |
| 0701 | Crystal Davis<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE | |
| 0801 | Instructor: TBA<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE | |
| 0901 | Instructor: TBA<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE | Lab |

| | | | |
|---|---|---|---|
| 1001 | Adriane Fang | Seats (Total: 15) | |
| | Class time/details on ELMs | ONLINE | |

**DANC418** **Contemporary Modern**

*Physical practice that sources postmodern dance influences, endurance training, improvisation, and choreographic composition to present movement practices as a form of investigation.*

Students must pay a $25 lab fee.

| | | | |
|---|---|---|---|
| 5501 | Kendra Portier | Seats (Total: 15) | |
| | TuTh 3:30pm - 4:45pm | PAC 1912 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**DANC420** **Partnering**

(Perm req)

*Restriction: Permission of ARHU-Dance department.*

*Elements of contemporary partnering including weight sharing, counter balancing, momentum/leverage, lifting and moving responsively.*

Students must pay a $25 lab fee.

| | | |
|---|---|---|
| 5501 | Alvin Mayes | Seats (Total: 12) |
| | MW 11:00am - 12:15pm | PAC 1912 |

**DANC448** **Modern Dance V**

(Perm req)

*Complex phrases of modern dance movement with emphasis on articulation and expression.*

Prerequisite: DANC349 and aududition. Students must pay a $25.00 lab fee.

| | | | |
|---|---|---|---|
| 5501 | Ama Law, Adriane Fang | Seats (Total: 10) | |
| | MWF 9:00am - 10:30am | PAC 1908 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**DANC449** **Modern Dance VI**

(Perm req)

*Continuation of DANC448.*

Prerequisite: DANC 448 and permission from the department Students must pay a $25.00 lab fee.

| | | | |
|---|---|---|---|
| 5501 | Adriane Fang, Ama Law | Seats (Total: 5) | |
| | MWF 9:00am - 10:30am | PAC 1908 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**DANC468** **Dance Repertory**

(Perm req)

*Form, content, music, design and performance of modern dance works.*

| | | | |
|---|---|---|---|
| 5501 | Ama Law | Seats (Total: 12) | |
| | TuTh 3:30pm - 5:00pm | PAC 1611 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**DANC499** **Practicum in Choreography, Production and Performance IV**

(Perm req)

*Advanced workshop in dance presentation, including performing, production and planned field experiences.*

Prerequisite: DANC 399.

| | | |
|---|---|---|
| 0101 | Patrik Widrig | Seats (Total: 5) |
| | Class time/details on ELMs | ONLINE |
| 0201 | Sara Pearson | Seats (Total: 5) |
| | Class time/details on ELMs | ONLINE |
| 0301 | Maura Keefe | Seats (Total: 5) |
| | Class time/details on ELMs | ONLINE |
| 0401 | Alvin Mayes | Seats (Total: 5) |
| | Class time/details on ELMs | ONLINE |
| 0501 | Instructor: TBA | Seats (Total: 15) |
| | Class time/details on ELMs | ONLINE |
| 0601 | Kendra Portier | Seats (Total: 5) |
| | Class time/details on ELMs | ONLINE |
| 0701 | Crystal Davis | Seats (Total: 5) |
| | Class time/details on ELMs | ONLINE |

| | | | |
|---|---|---|---|
| 0801 | Instructor: TBA<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE | |
| 0901 | Instructor: TBA<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE | |
| 1001 | Adriane Fang<br>Class time/details on ELMs | Seats (Total: 15)<br>ONLINE | |

**DANC600** **Graduate Dance Research**

(Perm req)

*Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.*

*Supervised writing of reports and articles on selected dance subjects. Study of library resources and interviewing techniques. Preparation for written documentation of thesis project.*

| | | | |
|---|---|---|---|
| 0101 | Maura Keefe<br>W 2:00pm - 4:30pm | Seats (Total: 5)<br>PAC 1924 | |

**DANC604** **Graduate Studies in Dance Pedagogy**

*Restriction: Must be admitted to MFA in Dance; or permission of ARHU-School of Theatre, Dance & Performance Studies department.*

*Curriculum writing, lesson planning, class structure, assessment/grading, and practice in dance pedagogy. Includes preparation of syllabi and studio teaching practice. This course counts towards teaching ceritification in the State of Maryland.*

Students must pay a $25 lab fee.

| | | | |
|---|---|---|---|
| 5501 | Crystal Davis<br>Tu 3:00pm - 4:15pm<br>Th 3:00pm - 4:45pm | Seats (Total: 5)<br>PAC 3730<br>PAC 1924 | <br><br>Lab |

**DANC608** **Graduate Choreography I: Creative Process**

*Developing and defining individual choreographic voice and vision in a shared studio setting.*

Prerequisite: Admission to MFA in Dance or permission of department. Students must pay a $25.00 lab fee. Developing and defining individual choreographic voice and vision in a s ared studio setting.

| | | | |
|---|---|---|---|
| 5501 | Kendra Portier, Lins Derry<br>MW 11:00am - 12:50pm<br>Class time/details on ELMs | Seats (Total: 5)<br>PAC 1908<br>ONLINE | <br>Lab<br>Lab |

**DANC610** **Workshop in the Direction of Dance Production**

(Perm req)

*Prerequisite: DANC410; or students who have taken courses with comparable content may contact the department.*

*A lecture/laboratory course dealing with the relationship of the director to all of the activities involved in the presentation of a dance concert.*

| | | | |
|---|---|---|---|
| 5501 | Kendra Portier, Samuel Crawford<br>M 2:00pm - 3:15pm | Seats (Total: 7)<br>PAC 2804 | |

**DANC628** **Graduate Ballet**

*Execution of the vocabulary of ballet movement with technical accuracy.*

Students must pay a $25 lab fee.

| | | | |
|---|---|---|---|
| 5501 | Kendra Portier<br>TuTh 11:00am - 12:15pm | Seats (Total: 5)<br>PAC 1908 | |

**DANC648** **Advanced Modern Dance Technique I**

(Perm req)

*Professional level training in contemporary dance techniques.*

Students must pay a $25 lab fee.

| | | | |
|---|---|---|---|
| 5501 | Adriane Fang, Ama Law<br>MWF 9:00am - 10:30am | Seats (Total: 10)<br>PAC 1908 | |

**DANC649** **Advanced Modern Dance Technique II**

(Perm req)

*A continuation of DANC 648.*

Students must pay a $25 lab fee.

| | | | |
|---|---|---|---|
| 5501 | Ama Law, Adriane Fang | Seats (Total: 5) | |
| | MWF 9:00am - 10:30am<br>Class time/details on ELMs | PAC 1908<br>ONLINE | Lab<br>Lab |

**DANC678** **Individual Movement Practice**

(Perm req)

*Students in consultation with the adviser, propose a specific movement practice and can select the practice from the range of technique offerings in the program. Additional work in documenting and providing evidence of growth towards individual outcomes is required.*

**Contact department for information to register for this course.**

**DANC679** **Graduate Dance Performance**

*An advanced performance course focusing on the restagings from noted scores of the choreographic works of significant artists in the field.*

**Contact department for information to register for this course.**

**DANC689F** **Special Topics in Dance; Aesthetics of Collaboration in Performance: Theory & Practice**

*Special Topics in dance theory, research or creative projects.*

This class offers practical methods for the creation and analysis of collaborative performance projects. Taking for granted that all performance works engage collaboration, this class is organized around themes of media, materiality, site-specificity, and working within and against systems. These themes are the organizing principles for student projects, as well as exemplary works of theory and performance. Finally, this class, being about collaboration, looks at strategies for working together, and carries with it an ethic of kindness, constructive critique, and mutual support.

| | | |
|---|---|---|
| 0101 | Lins Derry<br>MW 2:30pm - 3:45pm | Seats (Total: 15)<br>PAC 1809 |

**DANC689G** **Special Topics in Dance; Graduate Contemporary Dance**

*Special Topics in dance theory, research or creative projects.*

| | | |
|---|---|---|
| 5501 | Kendra Portier<br>TuTh 3:30pm - 4:45pm | Seats (Total: 4)<br>PAC 1611 |

**DANC689M** **Special Topics in Dance; Dance Pedagogy - Modern Technique**

(Perm req)

*Special Topics in dance theory, research or creative projects.*

| | | |
|---|---|---|
| 0101 | Patrik Widrig, Ama Law<br>MWF 1:00pm - 2:30pm | Seats (Total: 1)<br>PAC 1912 |

**DANC689P** **Special Topics in Dance; Pedagogy Practicum: Hip Hop**

*Special Topics in dance theory, research or creative projects.*

| | | |
|---|---|---|
| 0101 | Ama Law<br>MW 3:00pm - 4:15pm | Seats (Total: 1)<br>PAC 1912 |

**DANC689R** **Special Topics in Dance; Graduate Dance Repertory**

*Special Topics in dance theory, research or creative projects.*

| | | |
|---|---|---|
| 5501 | Ama Law<br>TuTh 3:30pm - 5:00pm | Seats (Total: 4)<br>PAC 1912 |

**DANC698** **Independent Study in Dance**

(Perm req)

*Directed independent study in theoretical topics.*

**Contact department for information to register for this course.**

**DANC699** **Thesis Writing Lab**

*The final writing project in MFA dance degree demonstrates students' ability to write critically about their creative work in relation to the dance field at large. A successful written thesis demonstrates a familiarity with concepts from dance history and critical theory as well as an ability to analyze movement and choreography. During the thesis writing lab, each student organizes ideas and establishes individual goals for the written project.*

| | | | |
|---|---|---|---|
| 0101 | Maura Keefe | Seats (Total: 5) | |
| | M 2:30pm - 3:30pm | PAC 1924 | |

**DANC719** **Graduate Choreography III: Projects**

*Research-based choreographic projects in preparation for the choreographed thesis project.*

Prerequisite: Admission to MFA in Dance or permission of department. Students must pay a $25.00 lab fee. Research-based choreographic projects in preparation for the choreographed thesis project.

| | | | |
|---|---|---|---|
| 5501 | Maura Keefe | Seats (Total: 7) | |
| | MW 11:00am - 12:50pm | PAC 1611 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**DANC777** **Internship in Dance**

(Perm req)

*Restriction: Must be admitted to MFA in Dance; or permission of ARHU-School of Theatre, Dance & Performance Studies department.*

*Internship in dance advocacy, administration, education, community building, choreography, or performance with an agency off campus and with a national or international profile.*

| | | |
|---|---|---|
| 0101 | Kendra Portier | Seats (Total: 5) |
| | Class time/details on ELMs | ONLINE |

**DANC779** **Master's Tutorial for Performance**

*Supervised performance experience for advanced dancers.*

| | | |
|---|---|---|
| 0401 | Alvin Mayes | Seats (Total: 15) |
| | Contact instructor or department for details. | |

| | | |
|---|---|---|
| 1001 | Adriane Fang<br>Contact instructor or department for details. | Seats (Total: 15) |
| 2001 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 15) |

**DANC788** **Master's Tutorial for Choreography; Graduate Tutorial**

*Supervised production and presentation of a significant choreographic project.*

| | | |
|---|---|---|
| 0101 | Patrik Widrig<br>Class time/details on ELMs | Seats (Total: 3)<br>ONLINE |
| 0201 | Sara Pearson<br>Class time/details on ELMs | Seats (Total: 3)<br>ONLINE |
| 0301 | Maura Keefe<br>Class time/details on ELMs | Seats (Total: 3)<br>ONLINE |
| 0401 | Alvin Mayes<br>Class time/details on ELMs | Seats (Total: 3)<br>ONLINE |
| 0501 | Instructor: TBA<br>Class time/details on ELMs | Seats (Total: 3)<br>ONLINE |
| 0601 | Instructor: TBA<br>Class time/details on ELMs | Seats (Total: 3)<br>ONLINE |
| 0701 | Crystal Davis<br>Class time/details on ELMs | Seats (Total: 3)<br>ONLINE |
| 0801 | Instructor: TBA<br>Class time/details on ELMs | Seats (Total: 3)<br>ONLINE |
| 1001 | Adriane Fang<br>Class time/details on ELMs | Seats (Total: 3)<br>ONLINE |

**DANC799** **Master's Thesis Project**
**Contact department for information to register for this course.**

# DATA Data Science and Analytics Fall 2024

**DATA100** **Elementary Statistics and Probability**

*Prerequisite: MATH110, MATH112, MATH113, or MATH115; or permission of CMNS-Mathematics department; or must have math eligibility of STAT100 or higher and math eligibility is based on the Math Placement Exam or the successful completion of Math 003 with appropriate eligibility. Restriction: Must not have completed MATH111; or must not have completed any STAT course with a prerequisite of MATH141. Cross-listed with: STAT100. Credit only granted for: DATA100 or STAT100.*

*Simplest tests of statistical hypotheses; applications to before-and-after and matched pair studies. Events, probability, combinations, independence. Binomial probabilities, confidence limits. Random variables, expected values, median, variance. Tests based on ranks. Law of large numbers, normal approximation. Estimates of mean and variance.*

| | | | |
|---|---|---|---|
| 0111 | Matthew Griffin<br>MWF 11:00am - 11:50am<br>M 9:30am - 10:45am | Seats (Total: 27)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0112 | Matthew Griffin<br>MWF 11:00am - 11:50am<br>M 12:30pm - 1:45pm | Seats (Total: 27)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0121 | Matthew Griffin<br>MWF 11:00am - 11:50am<br>Tu 9:30am - 10:45am | Seats (Total: 28)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0122 | Matthew Griffin<br>MWF 11:00am - 11:50am<br>Tu 11:00am - 12:15pm | Seats (Total: 28)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0123 | Matthew Griffin<br>MWF 11:00am - 11:50am<br>Tu 12:30pm - 1:45pm | Seats (Total: 27)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0124 | Matthew Griffin<br>MWF 11:00am - 11:50am<br>Tu 2:00pm - 3:15pm | Seats (Total: 26)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0131 | Matthew Griffin<br>MWF 11:00am - 11:50am<br>W 9:30am - 10:45am | Seats (Total: 25)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0141 | Matthew Griffin<br>MWF 11:00am - 11:50am<br>Th 12:30pm - 1:45pm | Seats (Total: 27)<br>ESJ 0224<br>PHY 4206 | Discussion |

| | | | |
|---|---|---|---|
| 0211 | Matthew Griffin<br>MWF 12:00pm - 12:50pm<br>M 9:30am - 10:45am | Seats (Total: 28)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0212 | Matthew Griffin<br>MWF 12:00pm - 12:50pm<br>M 2:00pm - 3:15pm | Seats (Total: 27)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0221 | Matthew Griffin<br>MWF 12:00pm - 12:50pm<br>Tu 9:30am - 10:45am | Seats (Total: 26)<br>ESJ 0224<br>PHY 1204 | Discussion |
| 0222 | Matthew Griffin<br>MWF 12:00pm - 12:50pm<br>Tu 11:00am - 12:15pm | Seats (Total: 28)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0223 | Matthew Griffin<br>MWF 12:00pm - 12:50pm<br>Tu 12:30pm - 1:45pm | Seats (Total: 28)<br>ESJ 0224<br>HBK 0123 | Discussion |
| 0224 | Matthew Griffin<br>MWF 12:00pm - 12:50pm<br>Tu 2:00pm - 3:15pm | Seats (Total: 28)<br>ESJ 0224<br>HBK 0123 | Discussion |
| 0231 | Matthew Griffin<br>MWF 12:00pm - 12:50pm<br>W 9:30am - 10:45am | Seats (Total: 26)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0241 | Matthew Griffin<br>MWF 12:00pm - 12:50pm<br>Th 9:30am - 10:45am | Seats (Total: 26)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0311 | Archana Khurana<br>MWF 2:00pm - 2:50pm<br>M 11:00am - 12:15pm | Seats (Total: 29)<br>ESJ 0224<br>MTH 0401 | Discussion |
| 0312 | Archana Khurana<br>MWF 2:00pm - 2:50pm<br>M 12:30pm - 1:45pm | Seats (Total: 30)<br>ESJ 0224<br>MTH 0401 | Discussion |

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|---|---|---|---|---|
| 0321 | Archana Khurana<br>MWF 2:00pm - 2:50pm<br>W 11:00am - 12:15pm | Seats (Total: 29)<br>ESJ 0224<br>MTH 0401 | Discussion |
| 0322 | Archana Khurana<br>MWF 2:00pm - 2:50pm<br>W 12:30pm - 1:45pm | Seats (Total: 30)<br>ESJ 0224<br>MTH 0401 | Discussion |
| 0331 | Archana Khurana<br>MWF 2:00pm - 2:50pm<br>Th 9:30am - 10:45am | Seats (Total: 30)<br>ESJ 0224<br>MTH 0407 | Discussion |
| 0333 | Archana Khurana<br>MWF 2:00pm - 2:50pm<br>Th 12:30pm - 1:45pm | Seats (Total: 30)<br>ESJ 0224<br>MTH 0304 | Discussion |

**DATA110** **Applications of R for Data Science**

*Prerequisite: DATA100, STAT100, or MATH135; or any 400-level STAT course. Cross-listed with: STAT110. Credit only granted for: STAT110 or DATA110.*

*Intended to prepare students for subsequent courses requiring computation with R, providing powerful and easy to use tools for statistical data analysis. Covers basics of R and R Studio including file handling, data simulation, graphical displays, vector and function operations, probability distributions, and inferential techniques for data analysis.*

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|---|---|---|---|
| 0101 | Susan Mazzullo<br>**Meets August 26, 2024 - October 20, 2024**<br>Class time/details on ELMs | Seats (Total: 210)<br>ONLINE | |

**DATA120** **Python Programming for Data Science**

*Prerequisite: STAT100, MATH135, or any 400-level STAT course.*

*An introduction to programming in Python language, using Jupyter Notebooks and Python scripts. Covers variables, conditionals, loops, functions, lists, strings, tuples, sets, dictionaries, files and visualization.*

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|---|---|---|---|
| 0101 | Mohammad Nayeem Teli<br>**Meets October 21, 2024 - December 9, 2024**<br>Class time/details on ELMs | Seats (Total: 200)<br>ONLINE | |

**DATA200** **Knowledge in Society: Science, Data and Ethics**

*Prerequisite: STAT100, MATH135, or any 400-level STAT course.*

*An introduction to the fundamental concepts and principles that govern ethical data collection, analysis, and usage. Students will explore various methods of data collection and gain an understanding of the ethical implications associated with each approach. Key topics include data ownership, data privacy, data anonymity, and data validity, providing students with a solid foundation in ethical data practices.*

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|---|---|---|
| 0101 | Fardina Alam<br>TuTh 11:00am - 12:15pm | Seats (Total: 60)<br>CSI 3117 |

**DATA250 Discrete Mathematics**

*Prerequisite: DATA110 or DATA120; and MATH141.*

*Introduction to basic discrete mathematical and linear algebraic structures and use of these mathematical structures to solve programming problems. Logic, set theory, formal proof methodology, functions, combinatorics, advanced counting techniques, and elements of linear algebra.*

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|---|---|---|
| 0101 | Todd Rowland<br>MWF 10:00am - 10:50am<br>F 9:00am - 9:50am | Seats (Total: 35)<br>KEB 1200<br>KEB 1200 |

**DATA320 Introduction to Data Science**

*Prerequisite: DATA110 or DATA120; and DATA200 and DATA250; or by permission of the DATA Program Director. Restriction: Must not be a Computer Science major. Jointly offered with: CMSC320. Credit only granted for: CMSC320 or DATA320.*

*An introduction to data science i.e., the end-to-end process of going from unstructured, messy data to knowledge and actionable insights. Provides a broad overview of several topics including statistical data analysis, basic data mining and machine learning algorithms, large-scale data management, cloud computing, and information visualization.*

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| 0101 | Maksym Morawski<br>TuTh 9:30am - 10:45am | Seats (Total: 15)<br>ESJ 0202 |
| 0201 | Fardina Alam<br>TuTh 3:30pm - 4:45pm | Seats (Total: 5)<br>IRB 0324 |

**DATA350 Data Visualization and Presentation**

*Prerequisite: DATA100, STAT100, MATH135, or any 400 level STAT course; and DATA110 or DATA120.*

*Introduction to effective and intuitive visual representations of data, including customizing graphics, plotting arrays, statistical graphics, and representing time series.*

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|---|---|---|---|
| 0101 | Fushuai Jiang<br>MWF 1:00pm - 1:50pm | Seats (Total: 34)<br>MTH 0101 | |

**DATA400** **Applied Probability and Statistics I**

*Prerequisite: 1 course with a minimum grade of C- from (MATH131, MATH141); or students who have taken courses with comparable content may contact the department. Cross-listed with: STAT400. Credit only granted for: DATA400, ENEE324, or STAT400. Additional information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.*

*Random variables, standard distributions, moments, law of large numbers and central limit theorem. Sampling methods, estimation of parameters, testing of hypotheses.*

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|---|---|---|---|
| 0111 | Jonathan Fernandes<br>MWF 1:00pm - 1:50pm<br>Tu 1:00pm - 1:50pm | Seats (Total: 27)<br>PHY 1412<br>MTH 0104 | Discussion |
| 0112 | Jonathan Fernandes<br>MWF 1:00pm - 1:50pm<br>Tu 1:00pm - 1:50pm | Seats (Total: 29)<br>PHY 1412<br>MTH 0304 | Discussion |
| 0113 | Jonathan Fernandes<br>MWF 1:00pm - 1:50pm<br>Tu 1:00pm - 1:50pm | Seats (Total: 28)<br>PHY 1412<br>PHY 2106 | Discussion |
| 0121 | Jonathan Fernandes<br>MWF 1:00pm - 1:50pm<br>Tu 2:00pm - 2:50pm | Seats (Total: 27)<br>PHY 1412<br>MTH 0104 | Discussion |
| 0122 | Jonathan Fernandes<br>MWF 1:00pm - 1:50pm<br>Tu 2:00pm - 2:50pm | Seats (Total: 29)<br>PHY 1412<br>MTH 0304 | Discussion |
| 0123 | Jonathan Fernandes<br>MWF 1:00pm - 1:50pm<br>Tu 2:00pm - 2:50pm | Seats (Total: 28)<br>PHY 1412<br>PHY 2106 | Discussion |
| 0131 | Jonathan Fernandes<br>MWF 1:00pm - 1:50pm<br>Tu 3:00pm - 3:50pm | Seats (Total: 27)<br>PHY 1412<br>MTH 0104 | Discussion |

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| 0132 | Jonathan Fernandes<br>MWF 1:00pm - 1:50pm<br>Tu 3:00pm - 3:50pm | Seats (Total: 29)<br>PHY 1412<br>MTH 0304 | Discussion |
| 0133 | Jonathan Fernandes<br>MWF 1:00pm - 1:50pm<br>Tu 3:00pm - 3:50pm | Seats (Total: 28)<br>PHY 1412<br>PHY 2106 | Discussion |
| 0211 | Mestiyage Gunatilleka<br>TuTh 9:30am - 10:45am<br>M 9:00am - 9:50am | Seats (Total: 29)<br>ARM 0126<br>MTH B0427 | Discussion |
| 0212 | Mestiyage Gunatilleka<br>TuTh 9:30am - 10:45am<br>M 9:00am - 9:50am | Seats (Total: 28)<br>ARM 0126<br>MTH 0304 | Discussion |
| 0213 | Mestiyage Gunatilleka<br>TuTh 9:30am - 10:45am<br>M 9:00am - 9:50am | Seats (Total: 28)<br>ARM 0126<br>PHY 2214 | Discussion |
| 0221 | Mestiyage Gunatilleka<br>TuTh 9:30am - 10:45am<br>M 10:00am - 10:50am | Seats (Total: 28)<br>ARM 0126<br>MTH B0427 | Discussion |
| 0222 | Mestiyage Gunatilleka<br>TuTh 9:30am - 10:45am<br>M 10:00am - 10:50am | Seats (Total: 29)<br>ARM 0126<br>MTH 0304 | Discussion |
| 0223 | Mestiyage Gunatilleka<br>TuTh 9:30am - 10:45am<br>M 10:00am - 10:50am | Seats (Total: 28)<br>ARM 0126<br>PHY 2214 | Discussion |
| 0231 | Mestiyage Gunatilleka<br>TuTh 9:30am - 10:45am<br>M 11:00am - 11:50am | Seats (Total: 29)<br>ARM 0126<br>MTH B0427 | Discussion |
| 0232 | Mestiyage Gunatilleka<br>TuTh 9:30am - 10:45am<br>M 11:00am - 11:50am | Seats (Total: 29)<br>ARM 0126<br>MTH 0304 | Discussion |

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| 0233 | Mestiyage Gunatilleka<br>TuTh 9:30am - 10:45am<br>M 11:00am - 11:50am | Seats (Total: 30)<br>ARM 0126<br>PHY 2214 | Discussion |
| 0311 | Sana Jahedi<br>TuTh 2:00pm - 3:15pm<br>W 8:00am - 8:50am | Seats (Total: 28)<br>ARM 0126<br>PHY 2214 | Discussion |
| 0312 | Sana Jahedi<br>TuTh 2:00pm - 3:15pm<br>W 8:00am - 8:50am | Seats (Total: 28)<br>ARM 0126<br>MTH B0423 | Discussion |
| 0313 | Sana Jahedi<br>TuTh 2:00pm - 3:15pm<br>W 8:00am - 8:50am | Seats (Total: 28)<br>ARM 0126<br>MTH 0103 | Discussion |
| 0321 | Sana Jahedi<br>TuTh 2:00pm - 3:15pm<br>W 9:00am - 9:50am | Seats (Total: 28)<br>ARM 0126<br>PHY 2214 | Discussion |
| 0322 | Sana Jahedi<br>TuTh 2:00pm - 3:15pm<br>W 9:00am - 9:50am | Seats (Total: 29)<br>ARM 0126<br>MTH B0423 | Discussion |
| 0323 | Sana Jahedi<br>TuTh 2:00pm - 3:15pm<br>W 9:00am - 9:50am | Seats (Total: 28)<br>ARM 0126<br>MTH 0103 | Discussion |
| 0331 | Sana Jahedi<br>TuTh 2:00pm - 3:15pm<br>W 10:00am - 10:50am | Seats (Total: 28)<br>ARM 0126<br>PHY 2214 | Discussion |
| 0332 | Sana Jahedi<br>TuTh 2:00pm - 3:15pm<br>W 10:00am - 10:50am | Seats (Total: 28)<br>ARM 0126<br>MTH B0423 | Discussion |
| 0333 | Sana Jahedi<br>TuTh 2:00pm - 3:15pm<br>W 10:00am - 10:50am | Seats (Total: 29)<br>ARM 0126<br>MTH 0103 | Discussion |

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|---|---|---|---|
| 0511 | Jenna Zomback<br>TuTh 9:30am - 10:45am<br>M 11:00am - 11:50am | Seats (Total: 28)<br>LEF 2205<br>PHY 1219 | Discussion |
| 0512 | Jenna Zomback<br>TuTh 9:30am - 10:45am<br>M 11:00am - 11:50am | Seats (Total: 28)<br>LEF 2205<br>MTH 0303 | Discussion |
| 0521 | Jenna Zomback<br>TuTh 9:30am - 10:45am<br>M 12:00pm - 12:50pm | Seats (Total: 28)<br>LEF 2205<br>PHY 1219 | Discussion |
| 0522 | Jenna Zomback<br>TuTh 9:30am - 10:45am<br>M 12:00pm - 12:50pm | Seats (Total: 28)<br>LEF 2205<br>MTH 0303 | Discussion |
| 0531 | Jenna Zomback<br>TuTh 9:30am - 10:45am<br>M 1:00pm - 1:50pm | Seats (Total: 28)<br>LEF 2205<br>PHY 1219 | Discussion |
| 0532 | Jenna Zomback<br>TuTh 9:30am - 10:45am<br>M 1:00pm - 1:50pm | Seats (Total: 28)<br>LEF 2205<br>MTH 0306 | Discussion |

**DATA601** **Probability and Statistics**

*Prerequisite: Undergraduate courses in calculus and basic linear algebra. Cross-listed with: BIOI601, MSML601. Credit only granted for: BIOI601, DATA601 or MSML601.*

*Provides a solid understanding of the fundamental concepts of probability theory and statistics. The course covers the basic probabilistic concepts such as probability space, random variables and vectors, expectation, covariance, correlation, probability distribution functions, etc. Important classes of discrete and continuous random variables, their inter-relation, and relevance to applications are discussed. Conditional probabilities, the Bayes formula, and properties of jointly distributed random variables are covered. Limit theorems, which investigate the behavior of a sum of a large number of random variables, are discussed. The main concepts random processes are then introduced. The latter part of the course concerns the basic problems of mathematical statistics, in particular, point and interval estimation and hypothesis testing.*

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|---|---|---|---|
| PCS1 | Leonid Koralov<br>W 6:00pm - 8:45pm<br>*Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | Seats (Total: 60)<br>CSI 3117 | |

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|---|---|---|
| PCS2 | Sandra Cerrai<br>W 6:00pm - 8:45pm<br>*Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | Seats (Total: 60)<br>PHY 1410 |
| PCS3 | Jonathan Fernandes<br>W 6:00pm - 8:45pm<br>*Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | Seats (Total: 60)<br>ESJ 2204 |
| PCS4 | Christopher Cameron<br>W 6:00pm - 8:45pm<br>*Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | Seats (Total: 60)<br>ESJ 2208 |
| PCS5 | Stefan Doboszczak<br>W 6:00pm - 8:45pm<br>*Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | Seats (Total: 60)<br>IRB 0318 |
| PCS6 | Roohollah Ebrahimian<br>F 4:00pm - 6:45pm<br>*Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | Seats (Total: 60)<br>PHY 1410 |
| PCS7 | Anna Szczekutowicz<br>F 4:00pm - 6:45pm<br>*Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | Seats (Total: 60)<br>PHY 1201 |

**DATA602** **Principles of Data Science**

*Restriction: Must be in one of the following programs: (Data Science Post-Baccalaureate Certificate, Master of Professional Studies in Data Science and Analytics, or Master of Professional Studies in Machine Learning). Cross-listed with: BIOI602, MSML602. Credit only granted for: BIOI602, DATA602, MSML602 or CMSC641. Formerly: CMSC641.*

*An introduction to the data science pipeline, i.e., the end-to-end process of going from unstructured, messy data to knowledge and actionable insights. Provides a broad overview of what data science means and systems and tools commonly used for data science, and illustrates the principles of data science through several case studies.*

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|---|---|---|
| PCS1 | Mohammad Nayeem Teli<br>M 6:00pm - 8:45pm | Seats (Total: 70)<br>ESJ 2204 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS2 | Fardina Alam<br>Tu 5:00pm - 7:45pm | Seats (Total: 70)<br>IRB 0318 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS3 | Maksym Morawski<br>Tu 6:00pm - 8:45pm | Seats (Total: 60)<br>IRB 1116 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS4 | Charles Forgy<br>Th 6:00pm - 8:45pm | Seats (Total: 60)<br>PHY 1201 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS5 | Heng Huang<br>Tu 6:00pm - 8:45pm | Seats (Total: 60)<br>PHY 1201 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS6 | Charles Forgy<br>Tu 6:00pm - 8:45pm | Seats (Total: 60)<br>CSI 2117 |
| PCS7 | Tammy Perrin<br>M 6:00pm - 8:45pm | Seats (Total: 60)<br>TWS 0310 |

**DATA603** **Principles of Machine Learning**

*Restriction: Must be in one of the following programs: (Data Science Post-Baccalaureate Certificate, Master of Professional Studies in Data Science and Analytics, or Master of Professional Studies in Machine Learning). Cross-listed with: BIOI603, MSML603, MSQC603. Credit only granted for: BIOI603, DATA603, MSML603, MSQC603 or CMSC643. Formerly: CMSC643.*

*A broad introduction to machine learning and statistical pattern recognition. Topics include: Supervised learning: Bayes decision theory, discriminant functions, maximum likelihood estimation, nearest neighbor rule, linear discriminant analysis, support vector machines, neural networks, deep learning networks. Unsupervised learning: clustering, dimensionality reduction, PCA, auto-encoders. The course will also discuss recent applications of machine learning, such as computer vision, data mining, autonomous navigation, and speech recognition.*

The lecture may be conducted online some weeks and in person other weeks. Please see ELMS for Class meeting details.

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|---|---|---|
| PCS1 | Babak Azimi-Sadjadi<br>Th 6:00pm - 8:45pm | Seats (Total: 70)<br>CSI 3117 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS2 | Alejandra Mercado<br>F 9:00am - 11:45am | Seats (Total: 70)<br>PLS 1130 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS3 | Kemal Davaslioglu<br>M 6:00pm - 8:45pm | Seats (Total: 65)<br>MCB 1207 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS4 | Babak Azimi-Sadjadi<br>M 6:00pm - 8:45pm | Seats (Total: 65)<br>CSI 3117 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS5 | Richard La<br>F 10:00am - 12:45pm | Seats (Total: 65)<br>BPS 1250 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS6 | Richard La<br>M 6:00pm - 8:45pm | Seats (Total: 65)<br>IRB 1116 |

**DATA607** **Communication in Data Science and Analytics**

*Prerequisite: DATA602.*

*Expected learning outcomes include that, in the context of data science and analytics, students should be able to: summarize, report, organize prose, statistics, graphics, and presentations; explain uncertainty, sensitivity/robustness, limitations; describe model generation and representation; discuss interpretations and implications; communicate effectively to diverse audiences within a business organization, and possibly other outcomes.*

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|---|---|---|
| PCS1 | Vincent Lyzinski | Seats (Total: 65) |
| | W 6:00pm - 8:45pm | EGR 1108 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |

**DATA641** **Natural Language Processing**

*Prerequisite: DATA603 or MSML603. Cross-listed with: MSML641. Credit only granted for: DATA641 or MSML641.*

*Introduces fundamental concepts and techniques involved in getting computers to deal more intelligently with human language. Focused primarily on text (as opposed to speech), the class will offer a grounding in core NLP methods for text processing (such as lexical analysis, sequential tagging, syntactic parsing, semantic representations, text classification, unsupervised discovery of latent structure), key ideas in the application of deep learning to language tasks, and consideration of the role of language technology in modern society.*

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|---|---|---|
| PCS1 | Shabnam Tafreshi | Seats (Total: 60) |
| | M 6:00pm - 8:45pm | EGR 1108 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |

**DATA650** **Cloud Computing**

*Cross-listed with: MSML650. Credit only granted for: MSML650 or DATA650.*

*Presents the state of the art in cloud computing technologies and applications. Topics will include: telecommunications needs, architectural models for cloud computing, cloud computing platforms and services. Data center networking, server, network and storage virtualization technologies, and containerization. Cloud operating and orchestration systems. Security, privacy, and trust management; resource allocation and quality of service; interoperability and internetworking.*

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|---|---|---|
| PCS1 | Samet Ayhan | Seats (Total: 70) |
| | Tu 6:00pm - 8:45pm | CSI 3117 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |

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|---|---|---|---|
| PCS2 | Samet Ayhan<br>Th 6:00pm - 8:45pm | Seats (Total: 50)<br>IRB 2107 | |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | | |

# ECON Economics Fall 2024

*The Department of Economics enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course.*

**ECON111** **Thinking Like an Economist**

*Restriction: Must be sophomore standing or lower.*

*An introduction to the modes of thought of economics. Use of simple standard tools of economics to analyze important problems that arise frequently in public policy, the news media, and in daily life. An emphasis on how economists predict what choices societies make and how economists analyze whether those are good choices. Practical application of a variety of economic tools leading to a focus on the essential unity underlying these analytical tools, viewing economics as a discipline that applies a core methodology in different ways in different situations.*

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|---|---|---|---|
| 0101 | Peter Murrell<br>MW 2:00pm - 2:50pm<br>F 9:00am - 9:50am | Seats (Total: 20)<br>SYM 0200<br>TYD 0101 | <br><br>Discussion |
| 0102 | Peter Murrell<br>MW 2:00pm - 2:50pm<br>F 10:00am - 10:50am | Seats (Total: 20)<br>SYM 0200<br>TYD 0101 | <br><br>Discussion |
| 0103 | Peter Murrell<br>MW 2:00pm - 2:50pm<br>F 11:00am - 11:50am | Seats (Total: 20)<br>SYM 0200<br>TYD 0101 | <br><br>Discussion |

**ECON200** **Principles of Microeconomics**

*Prerequisite: MATH107 or MATH110; or must have math eligibility of MATH113 or higher. Additional information: It is recommended that students complete ECON200 before taking ECON201.*

*Introduces economic models used to analyze economic behavior by individuals and firms and consequent market outcomes. Applies conceptual analysis to several policy issues and surveys a variety of specific topics within the broad scope of microeconomics.*

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|---|---|---|---|
| 0101 | Hossein Abbasi<br>TuTh 9:30am - 10:45am | Seats (Total: 375)<br>TYD 0130 | |

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|---|---|---|
| 0201 | Stefania Scandizzo<br>TuTh 11:00am - 12:15pm | Seats (Total: 375)<br>TYD 0130 |
| 0301 | Erin Moody<br>TuTh 12:30pm - 1:45pm | Seats (Total: 375)<br>TYD 0130 |
| FC01 | Hossein Abbasi<br>MW 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 199)<br>TYD 0130 |

**ECON201** **Principles of Macroeconomics**

*Prerequisite: MATH107 or MATH110; or must have math eligibility of MATH113 or higher. Recommended: ECON200. Credit only granted for: ECON201 or ECON205.*

*An introduction to how market economies behave at the aggregate level. The determination of national income/output and the problems of unemployment inflation, will be examined, along with monetary and fiscal policy.*

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| 0101 | John Shea<br>TuTh 2:00pm - 3:15pm | Seats (Total: 250)<br>TYD 0130 |
| 0201 | Naveen Sarna<br>TuTh 3:30pm - 4:45pm | Seats (Total: 250)<br>TYD 0130 |

**ECON230** **Applied Economic Statistics**

*Prerequisite: Must have math eligibility of MATH113 or higher; or 1 course with a minimum grade of C- from (MATH107, MATH110); and minimum grade of C- in ECON200 and ECON201. Recommended: Students should already have basic familiarity with Microsoft Excel or similar spreadsheet software. Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics minor; Social Data Science-Economics).*

*Introductory course to develop understanding of statistical concepts used in applied economics. Students will acquire skills needed to calculate and interpret statistical concepts, including descriptive statistics, probability, discrete and continuous distributions, sampling, point and interval estimations, hypothesis testing, basic analysis of variance, and simple linear regression models. Students will apply these concepts to data using both handheld calculators and spreadsheets(Excel), and students will be introduced to an econometric software package such as SPSS or SAS or R.*

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| 0101 | Pierre De Leo<br>TuTh 3:30pm - 4:45pm | Seats (Total: 38)<br>TYD 2106 |

**ECON298I** **Special Topics in Economics; Start-up Nation? Tech Entrepreneurship in Israel**

*Selected topics in economics. Designed to meet the changing interests of students and staff.*

Cross-listed with ISRL249J and BMGT298L. Credit only granted for ISRL249J, ECON298I, or BMGT298L. This interdisciplinary course will explore the unique ecosystem that has contributed to the creation and success of the Israeli tech sector. The course addresses cultural, historical, and social factors and examines key moments and individuals in the country's startup landscape.Through case studies, guest lectures, and interactive projects, students will gain practical insights into entrepreneurship. The course also addresses the ethical considerations and social impacts of entrepreneurship in Israel, providing a well-rounded understanding of the complexities of starting a business in this dynamic environment.

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| 0101 | Aner Tal<br>TuTh 12:30pm - 1:45pm | Seats (Total: 35)<br>PLS 1113 | |

**ECON300** **Methods and Tools for Economic Analysis**

*Prerequisite: 1 course with a minimum grade of C- from (ECON200, ECON201); and minimum grade of C- in MATH140. Restriction: Must be in Economics Bachelor of Science program; and must not have completed MATH241.*

*Economic application of mathematical tools and concepts necessary for intermediate and advanced coursework in economics. Topics include: multivariable calculus, constrained optimization, foundational coverage of probability theory, and exponential/logarithmic functions.*

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|---|---|---|---|
| 0101 | Chenyu Yang<br>MW 2:00pm - 3:15pm | Seats (Total: 50)<br>TYD 2106 | |

**ECON305** **Intermediate Macroeconomic Theory and Policy**

*Prerequisite: Minimum grade of C- in ECON200 and ECON201; and 1 course with a minimum grade of C- from (MATH120, MATH130, MATH136, MATH140). Credit only granted for: ECON305 or ECON325.*

*Analysis of the determination of national income, employment, and price levels. Discussion of consumption, investment, inflation, and government fiscal and monetary policy.*

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|---|---|---|---|
| 0101 | Martina Copelman<br>TuTh 2:00pm - 3:15pm<br>F 9:00am - 9:50am | Seats (Total: 35)<br>TWS 0310<br>TYD 1132 | Discussion |
| 0102 | Martina Copelman<br>TuTh 2:00pm - 3:15pm<br>F 10:00am - 10:50am | Seats (Total: 35)<br>TWS 0310<br>TYD 1132 | Discussion |
| 0201 | Martina Copelman<br>TuTh 3:30pm - 4:45pm<br>F 11:00am - 11:50am | Seats (Total: 35)<br>TWS 0310<br>SQH 1119 | Discussion |

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| 0202 | Martina Copelman<br>TuTh 3:30pm - 4:45pm<br>F 12:00pm - 12:50pm | Seats (Total: 35)<br>TWS 0310<br>SQH 1119 | Discussion |
| ESG1 | Naveen Sarna<br>TuTh 2:00pm - 3:15pm<br>*Restricted to Shady Grove students.* | Seats (Total: 45)<br>ONLINE | |

**ECON306** **Intermediate Microeconomic Theory & Policy**

*Prerequisite: 1 course with a minimum grade of C- from (ECON200, AREC250); and minimum grade of C- in ECON201; and 1 course with a minimum grade of C- from (MATH120, MATH130, MATH136, MATH140). Credit only granted for: ECON306, ECON326, AREC489M, or AREC326.*

*Analysis of the theories of consumer behavior, producer behavior, different market structures, and various sources of inefficient outcomes. Analysis of microeconomic policies designed to improve market outcomes.*

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| 0101 | Aaron Finkle<br>MW 2:00pm - 3:15pm<br>F 9:00am - 9:50am | Seats (Total: 60)<br>KEY 0106<br>TYD 0117 | Discussion |
| 0102 | Aaron Finkle<br>MW 2:00pm - 3:15pm<br>F 10:00am - 10:50am | Seats (Total: 60)<br>KEY 0106<br>TYD 0117 | Discussion |
| 0201 | Aaron Finkle<br>MW 3:30pm - 4:45pm<br>F 11:00am - 11:50am | Seats (Total: 60)<br>KEY 0106<br>TYD 0117 | Discussion |
| 0202 | Aaron Finkle<br>MW 3:30pm - 4:45pm<br>F 12:00pm - 12:50pm | Seats (Total: 60)<br>KEY 0106<br>TYD 0117 | Discussion |
| ESG1 | Peter Coughlin<br>MW 12:30pm - 1:45pm<br>*Restricted to Shady Grove students.* | Seats (Total: 45)<br>ONLINE | |

**ECON311** **American Economic History Before the Civil War**

*Prerequisite: Minimum grade of C- in ECON200 and ECON201. Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics minor; Social Data Science-Economics).*

*Economic concepts are used to analyze various aspects of the founding and early history of the U.S., including the British settlement of the North American colonies, the economics of the American Revolutionary war, the writing of the Constitution, the development of financial markets, policies on public lands and the spread of western agriculture, slavery, banking, and early industrialization.*

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|---|---|---|
| 0101 | John Wallis | Seats (Total: 90) |
| | TuTh 11:00am - 12:15pm | TWS 0320 |

**ECON314 Economic History, Development and Policy**

*Prerequisite: ECON200 and ECON201.*

*Study abroad in the economic history, institutional development, and recent economic policy problems of selected areas.*

**Contact department for information to register for this course.**

**ECON315 Economic Development of Underdeveloped Areas**

*Prerequisite: Minimum grade of C- in ECON200 and ECON201. Credit only granted for: ECON315 or ECON416.*

*Analysis of the economic and social characteristics of underdeveloped areas. Recent theories of economic development, obstacles to development, policies and planning for development.*

**Contact department for information to register for this course.**

**ECON317 Global Economic Policies**

*Prerequisite: Minimum grade of C- in ECON200 and ECON201. Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics minor; Social Data Science-Economics).*

*Analysis of policy options and debates on fostering economic growth and development in a global economy where national boundaries are no longer relevant. Topics covered will include real loanable funds markets in both local and international contexts during normal conditions and during financial crises, the design of trade and industrial policies, and the role of the World Bank, IMF, WTO, and other international agencies as well as regional and bilateral trade agreements. Emerging economies will be emphasized.*

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| 0101 | Naveen Sarna | Seats (Total: 40) |
| | TuTh 12:30pm - 1:45pm | TYD 0111 |

**ECON321 Economic Statistics**

*Prerequisite: Minimum grade of C- in ECON200 and ECON201; and minimum grade of C- in ECON300 or (MATH241 and any statistics course). Restriction: Must be in Economics Bachelor of Science program.*

*Introduction to the use of statistics in economics. Topics include: Probability, random variables and their distributions, sampling theory, estimation, hypothesis testing, analysis of variance, regression analysis and correlation.*

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| 0101 | Alka Gandhi<br>MWF 10:00am - 10:50am | Seats (Total: 45)<br>TYD 2102 | |

**ECON325** **Intermediate Macroeconomic Analysis**

*Prerequisite: Minimum grade of C- in ECON200 and ECON201; and minimum grade of C- in ECON300 or (MATH241 and any statistics course). Restriction: Must be in one of the following programs (Economics Bachelor of Science; Economics minor). Credit only granted for: ECON305 or ECON325.*

*Analysis of macroeconomic behavior and policy with emphasis on theoretical rigor. Topics include the determinants of economic growth, unemployment, inflation, and international economic flows.*

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| 0101 | L Stevens<br>MW 11:00am - 12:15pm<br>F 12:00pm - 12:50pm | Seats (Total: 24)<br>TYD 2102<br>TYD 2102 | <br><br>Discussion |
| 0102 | L Stevens<br>MW 11:00am - 12:15pm<br>F 1:00pm - 1:50pm | Seats (Total: 24)<br>TYD 2102<br>TYD 2102 | <br><br>Discussion |

**ECON326** **Intermediate Microeconomic Analysis**

*Prerequisite: Minimum grade of C- in ECON200 and ECON201; and minimum grade of C- in ECON300 or (MATH241 and any statistics course). Restriction: Must be in one of the following programs (Economics Bachelor of Science; Economics minor). Credit only granted for: ECON306, ECON326, or AREC326.*

*Analysis of economic decision-making by individuals and firms, the resulting market outcomes, and applications to real-world problems. Emphasis on analytical logic and theoretical rigor. Topics covered include consumer preferences and utility maximization, perfect competition and market power, uncertainty and risk, externalities, and asymmetric information.*

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| 0101 | Judith Hellerstein<br>MW 2:00pm - 3:15pm<br>F 12:00pm - 12:50pm | Seats (Total: 25)<br>TYD 1132<br>TYD 2109 | <br><br>Discussion |
| 0102 | Judith Hellerstein<br>MW 2:00pm - 3:15pm<br>F 1:00pm - 1:50pm | Seats (Total: 25)<br>TYD 1132<br>TYD 2109 | <br><br>Discussion |

**ECON327** **Behavioral Economics**

*Prerequisite: Minimum grade of C- in ECON200 and ECON201. Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics minor; Social Data Science-Economics).*

*Integrating the insights of psychology into economics. Analysis of the ways in which individuals make decisions that systematically depart from the so-called "standard model" of homo economicus, which assumes perfect rationality, perfect selfishness, and perfect willpower. Investigating the implications of the major findings of behavioral economics for policymakers.*

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| 0101 | Erkut Ozbay | Seats (Total: 65) |
| | TuTh 11:00am - 12:15pm | TYD 0117 |

**ECON330 Money and Banking**

*Prerequisite: Minimum grade of C- in ECON200 and ECON201.*

*The structure of financial institutions and their role in the provision of money and near money. Analysis of the Federal Reserve System, the techniques of central banks, and the control of supply of financial assets in stabilization policy. Relationship of money and credit to economic activity and the price level.*

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| 0101 | Thomas Drechsel | Seats (Total: 275) |
| | TuTh 9:30am - 10:45am | SKN 0200 |

**ECON340 International Economics**

*Prerequisite: Minimum grade of C- in ECON200 and ECON201. Credit only granted for: ECON340 or ECON441.*

*Introduces economic models of international trade and finance. Analyzes policies designed to promote and restrict international trade and to manage exchange rates and impact international capital flows.*

**Contact department for information to register for this course.**

**ECON358K Special Topics in Study Abroad III; Spreadsheets and Data in Economics**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ECON358L Special Topics in Study Abroad III; Economics of Social Issues**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ECON358M Special Topics in Study Abroad III; Financial Markets and Institutions**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ECON358N Special Topics in Study Abroad III; History of Economic Thought**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ECON371 Economic Analysis of Good, Evil, and Fairness**

*Prerequisite: Minimum grade of C- in ECON200 and ECON201. Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics minor; Social Data Science-Economics).*

*Examines how economic tools can be used to analyze and better understand issues of "Good", "Evil" and "Fairness". Considers questions such as: What is the relation between fairness and equal treatment? Between fairness and equality? What makes an economic or political system "fair" or "unfair"? What makes a system "good"?*

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| 0101 | Allan Drazen | Seats (Total: 20) |
| | MW 2:00pm - 3:15pm | TYD 0101 |

**ECON375** **Economics of Poverty and Discrimination**

*Prerequisite: Minimum grade of C- in ECON200 and ECON201.*

*Examination of various issues, including: the causes of persistent poverty over time for some groups within society; the relationship of poverty to technological change, to economic growth, and to education and training; economic results of discrimination; proposed remedies for poverty and discrimination.*

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| 0101 | Sergio Urzua | Seats (Total: 40) |
| | MW 11:00am - 12:15pm | TYD 2109 |

**ECON386** **Experiential Learning**

(Perm req)

*Prerequisite: ECON201 and ECON200. Restriction: Permission of BSOS-Economics department; and must be in a major within the BSOS-Economics department; and minimum cumulative GPA of 2.5; and junior standing or higher.*

*See Department Advising Office for course eligibility, course requirements, and application information.*

*Student and internship eligibility requirements, along with the ECON386 application, can be found at: http://ter.ps/ECON386.*

**Contact department for information to register for this course.**

**ECON387** **Career Preparation for Economics Majors**

*Prerequisite: Minimum grade of C- in ECON200 and ECON201. Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics Bachelor of Science) ; and must have earned a minimum of 30 credits.*

*Increase student knowledge of career paths, job search tools, and strategies for successfully obtaining a job with a BA or BS in economics. Students will engage in a range of different activities which build their understanding of job opportunities in economics and hone their abilities to find positions they want. Students will reflect on specific skills employers seek from economics graduates and incorporate that knowledge in their own individual job search and career plan.*

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| 0101 | Stefania Scandizzo<br>**Meets August 26, 2024 - October 15, 2024**<br>F 12:00pm - 1:50pm<br>Class time/details on ELMs | Seats (Total: 20)<br><br>TYD 1118<br>ONLINE | <br><br><br>Discussion |
| 0201 | Stefania Scandizzo<br>**Meets October 16, 2024 - December 9, 2024**<br>F 12:00pm - 1:50pm<br>Class time/details on ELMs | Seats (Total: 20)<br><br>TYD 1118<br>ONLINE | <br><br><br>Discussion |

**ECON396** **Independent Honors Study**

(Perm req)

*Restriction: Permission of BSOS-Economics department.*

*First semester of the departmental honors sequence. Students will develop and apply research skills required to carry out original research. By the end of the semester students will have produced a complete draft of an honors thesis resembling a scholarly journal article.*

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| 0101 | Sergio Urzua<br>MW 9:30am - 10:45am | Seats (Total: 15)<br>TYD 2109 |

**ECON397** **Honors Thesis**

*Prerequisite: ECON396. Restriction: Must be a candidate for honors in economics.*

*General supervision will be provided through assembled meetings with the professor in charge of the course.*

**Contact department for information to register for this course.**

**ECON398H** **Topics in Economics; British Economy and Financial System**

*This course is designed to meet the changing interests of students and staff. Topics vary in response to those interests. Students are advised to seek information about the coverage and prerequisites during the registration period.*

**Contact department for information to register for this course.**

**ECON398L** **Topics in Economics; The British Economy and Financial Systems**

*This course is designed to meet the changing interests of students and staff. Topics vary in response to those interests. Students are advised to seek information about the coverage and prerequisites during the registration period.*

**Contact department for information to register for this course.**

**ECON399** **Independent Study in Economics**

(Perm req)

*Integrated readings and independent study under direction and supervision of a faculty member. Contact department for additional information.*

Permission of instructor must be arranged in advance. Open only to students who have previously earned 6 or more credits in upper division economics courses.

**Contact department for information to register for this course.**

**ECON402 Macroeconomic Models and Forecasting**

*Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics minor; Social Data Science-Economics).*

*Analysis of the fluctuations in economic activity and the formulation and use of forecasting models of the economy. Illustrations of computer macro models and forecasting problems.*

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| 0101 | Boragan Aruoba | Seats (Total: 40) |
| | MW 2:00pm - 3:15pm | TYD 2102 |

**ECON410 Comparative Economic Institutions**

*Prerequisite: Minimum grade of C- in ECON325 and ECON326; and 1 course with a minimum grade of C- from (ECON321, STAT401). Restriction: Must be in one of the following programs (Economics Bachelor of Science; Economics minor).*

*Institutions are the sets of rules that constrain the decisions and interactions of economic agents. The course uses economic analysis to understand both formal institutions (e.g. laws) and informal institutions (e.g. cultural norms). Practical examples are drawn from economics, law, and politics, and reflect the experience of many different countries.*

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| 0101 | Peter Murrell | Seats (Total: 15) |
| | MW 11:00am - 12:15pm | TYD 1114 |

**ECON414 Game Theory**

*Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321, STAT401). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics Bachelor of Science; Economics minor). Credit only granted for: CMSC474, ECON414, GVPT399A or GVPT390.*

*Studies the competitive and cooperative behavior that results when several parties find that their individual outcomes are jointly determined. Students will learn how to use game theory to analyze situations of potential conflict. Applications are drawn from economics, business, and political science.*

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| 0101 | Daniel Vincent | Seats (Total: 48) |
| | TuTh 2:00pm - 3:15pm | TYD 2109 |

**ECON416** **Analysis of Economic Development**

*Prerequisite: Minimum grade of C- in ECON325, ECON326, and ECON422. Restriction: Must be in one of the following programs (Economics Bachelor of Science; Economics minor). Credit only granted for: ECON315 or ECON416.*

*Analysis of the determinants and influences on economic development. Emphasis on both theoretical models and econometric methods of explaining why some countries are poor, along with examination of policies to promote development.*

**Contact department for information to register for this course.**

**ECON418C** **Economic Development of Selected Areas; China**

*Economic and institutional characteristics of a specific geographic area are identified and discussed, and alternate strategies and policies for development are analyzed.*

Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in Economics Bachelor of Arts program. Credit only granted for: ECON418C or AREC447. An introductory survey course of economic development in China with emphasis on understanding the process of economic reform in mainland China since 1978.

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| 0101 | Jing Cai<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>SYM 0200 |

**ECON422** **Econometrics**

*Prerequisite: 1 course with a minimum grade of C- from (ECON325, ECON326); and 1 course with a minimum grade of C- from (ECON321, STAT401). Restriction: Must be in one of the following programs (Economics Bachelor of Science; Economics minor). Credit only granted for: ECON422, ECON424, or AREC422.*

*Emphasizes the interaction between economic problems and the assumptions employed in statistical theory. Formulation, estimation, and testing of economic models, including single variable and multiple variable regression techniques, theory of identification, and issues relating to inference.*

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| 0101 | Alka Gandhi<br>MWF 12:00pm - 12:50pm | Seats (Total: 30)<br>TYD 2106 |
| 0201 | Alka Gandhi<br>MWF 1:00pm - 1:50pm | Seats (Total: 30)<br>TYD 2106 |

**ECON423** **Advanced Topics in Econometrics**

*Prerequisite: Minimum grade of C- in ECON422. Restriction: Must be in one of the following programs (Economics Bachelor of Science; Economics minor).*

*Interaction between economic problems and specification and estimation of econometric models. Topics may include: autocorrelation, heteroscedasticity, functional form, simultaneous equation models, logit and probit models, instrumental variables, qualitative choice models, and other computational methods.*

**Contact department for information to register for this course.**

**ECON424** **Applied Econometrics**

*Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON306, ECON325, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics minor; Social Data Science-Economics). Credit only granted for: ECON422, ECON424 or AREC422.*

*Provide the knowledge and skills necessary to accomplish and utilize basic applied econometric analysis utilized by many business service providers, government agencies, and nonprofits engaged in policy analysis. Topics include simple and multiple regressions using cross section, time series, and panel data, issues of heteroskedasticity, serial correlation, and multicollinearity, models with binary dependent variable, and program evaluation. Course emphasizes application of knowledge using software packages but still covers essential theoretical background.*

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| 0101 | Hossein Abbasi | Seats (Total: 48) |
| | TuTh 12:30pm - 1:45pm | TYD 2102 |

**ECON425** **Mathematical Economics**

*Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON306, ECON326). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics minor; Social Data Science-Economics).*

*Covers mathematical tools and skills utilized in upper undergraduate and master's level coursework in Economics and Public Policy. Reviews calculus and math of finance and growth. Introduces techniques of optimization, linear algebra, and differential equations and connects them to micro and macro theory and applications. Topics will also include coverage of probability theory to explore how economists model uncertainty, as well as economic applications of integration.*

**Contact department for information to register for this course.**

**ECON432** **Applied Machine Learning**

(Perm req)

*Prerequisite: 1 course with a minimum grade of C- from (ECON422, ECON424). Restriction: Permission of BSOS-Economics department; and must be in one of the following programs (Economics Bachelor of Arts; Economics Bachelor of Science; Economics minor; Social Data Science-Economics).*

*Offers a comprehensive examination of the concepts and techniques used in machine learning, with a specific emphasis on their applications in economics. Focuses on the practical aspects of machine learning, including the use of different methods, model selection, and performance evaluation. Students will explore both supervised and unsupervised learning techniques, such as linear and non-linear regression, k-nearest neighbors, tree-based approaches, support vector machines, neural networks, and dimensionality reduction methods. Additional advanced methods may be covered, depending on the time available. Hands-on implementation of these techniques will be conducted using the R programming language.*

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| 0101 | Hossein Abbasi<br>TuTh 11:00am - 12:15pm<br>F 11:00am - 11:50am | Seats (Total: 20)<br>TYD 2102<br>TYD 0102 | <br><br>Discussion |
| 0102 | Hossein Abbasi<br>TuTh 11:00am - 12:15pm<br>F 12:00pm - 12:50pm | Seats (Total: 20)<br>TYD 2102<br>TYD 1102 | <br><br>Discussion |

**ECON433** **Economics of Big Data**

*Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321, STAT401). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics Bachelor of Science; Economics minor; Social Data Science-Economics).*

*The importance of big data in the global economy is rising. Students will explore the definition and characteristics of big data, the impact of big data on individuals, use of big data by firms, entrepreneurs and non-profits, as well as how big data reshapes various public policies.*

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| 0101 | Ginger Jin<br>MW 2:00pm - 3:15pm<br>F 10:00am - 10:50am | Seats (Total: 24)<br>TYD 2109<br>TYD 1118 | <br><br>Discussion |
| 0102 | Ginger Jin<br>MW 2:00pm - 3:15pm<br>F 11:00am - 11:50am | Seats (Total: 24)<br>TYD 2109<br>TYD 1118 | <br><br>Discussion |

**ECON442** **Globalization and Capital Markets**

*Prerequisite: Minimum grade of C- in ECON326 and ECON325; and 1 course with a minimum grade of C- from (ECON321, STAT401). Restriction: Must be in one of the following programs (Economics Bachelor of Science; Economics minor); and must not have completed ECON441. Credit only granted for: ECON441 or ECON442.*

*Uses models of open-economy macroeconomics to explain the causes and consequences of international capital flows. Analysis is made of private consumption, investment, the government sector, current accounts, the labor market, and the money and foreign exchange markets in small open economies. This framework is then used to study examples of how speculative attacks on currencies, sudden reversals of capital inflows, and the effects of the lack of credibility of economic policy affect economic development.*

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| 0101 | Martina Copelman | Seats (Total: 40) |
| | TuTh 11:00am - 12:15pm | TYD 2106 |

**ECON443** **International Trade and Trade Policy in the New Global Economy**

*Prerequisite: 1 course with a minimum grade of C- from (ECON305, ECON325); and 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics minor; Social Data Science-Economics); and must not have completed ECON441. Credit only granted for: ECON441 or ECON443.*

*Examines the economics of international economic integration, including the theory of customs unions and free trade areas, the role of GATT and the WTO, changes in individual countries' foreign trade policies during the new era of globalization, the special role of multinational firms in world trade, and recent controversies about the benefits and costs of globalized trade.*

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| 0101 | Stefania Scandizzo | Seats (Total: 38) |
| | TuTh 2:00pm - 3:15pm | TYD 1102 |

**ECON451** **Public Choice**

*Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics minor; Social Data Science-Economics).*

*Analysis of collective decision making, economic models of government, program budgeting, and policy implementation; emphasis on models of public choice and institutions which affect decision making.*

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| 0101 | Peter Coughlin | Seats (Total: 38) |
| | MWF 11:00am - 11:50am | TYD 1102 |

**ECON453** **Natural Resources and Public Policy**

*Prerequisite: AREC326, ECON306, or ECON326; and (BMGT230 or ECON230). Restriction: Must be in one of the following programs (Agricultural and Resource Economics; Agricultural and Resource Economics: Agribusiness; Agricultural and Resource Economics: Environmental and Resource Economics; Economics Bachelor of Arts; Environmental Science & Policy-Env Economics; Social Data Science-Economics; Economics minor). Cross-listed with: AREC453. Credit only granted for: AREC453 or ECON453.*

*Rational use and reuse of natural resources. Theory, methodology, and policies concerned with the allocation of natural resources among alternative uses. Optimum state of conservation, market failure, safe minimum standard, and cost-benefit analysis.*

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| 0101 | Erik Lichtenberg | Seats (Total: 36) |
| | TuTh 2:00pm - 3:15pm | ESJ B0320 |

**ECON455** **Economics of Education Policy**

*Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics minor; Social Data Science-Economics). Credit only granted for: ECON468E or ECON455. Formerly: ECON468E.*

*Examines the role that government plays in providing and financing education. Analyzes why people invest in education. Considers the effects of education on long-term social and economic outcomes, the behavior of institutions that produce education, and how to design and implement public policies affecting the level and distribution of educational resources. Uses microeconomic models and empirical findings to analyze current issues in education policy.*

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| 0101 | Nolan Pope | Seats (Total: 38) |
| | TuTh 12:30pm - 1:45pm | TYD 1102 |

**ECON456** **Law and Economics**

*Prerequisite: 1 course with a minimum grade of C- from (ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, BMGT230, ECON321). Restriction: Must be in one of the following programs (Economics Bachelor of Arts; Economics minor; Social Data Science-Economics).*

*Relationship of the exchange process to the system of institutions and rules that society develops to carry out economic transactions. Topics covered include: Property rights; torts, negligence, and liability; contracts and exchanges; criminal control and enforcement; equity and efficiency issues .*

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| 0101 | Aaron Finkle | Seats (Total: 80) |
| | MW 11:00am - 12:15pm | TYD 0117 |

**ECON458J** **Special Topics in Study Abroad IV; Topics in Econometrics**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ECON481** **Environmental Economics**

*Prerequisite: 1 course with a minimum grade of C- from (AREC326, ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, ECON321, BMGT230). Restriction: Must be in one of the following programs (Agricultural and Resource Economics; Agricultural and Resource Economics: Agribusiness; Agricultural and Resource Economics: Environmental and Resource Economics; Economics Bachelor of Arts; Environmental Science & Policy-Env Economics; Social Data Science-Economics; Economics minor). Cross-listed with: AREC481. Credit only granted for: ECON481 or AREC481.*

*An exploration of the use of economic incentives for protection of the environment and the determination of appropriate (or efficient) level of environmental quality. Also covers the choice of policy instruments for the attainment of environmental standards.*

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| 0101 | Maureen Cropper | Seats (Total: 38) |
| | MW 3:30pm - 4:45pm | TYD 2106 |

**ECON485** **Economics of Land Use**

*Prerequisite: 1 course with a minimum grade of C- from (AREC326, ECON306, ECON326); and 1 course with a minimum grade of C- from (ECON230, ECON321, BMGT230). Cross-listed with: AREC455. Credit only granted for: AREC455 or ECON485.*

*Fundamentals of location theory. Microeconomics of land use decisions, including determination of rent and hedonic pricing models. Impacts of government decisions on land use, including regulation (e.g., zoning), incentives (transferable development rights), provision of public services, and infrastructure investments. Impacts of land use on environmental quality, including issues relating to sprawl, agricultural land preservation, and other topics of special interest.*

Click here to review the ECON course list to determine how this course will count towards your major.

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|---|---|---|
| 0101 | David Newburn | Seats (Total: 80) |
| | TuTh 3:30pm - 4:45pm | SYM 0200 |

**ECON499** **Independent Research in Economics**

(Perm req)

*Directed research under the supervision of a faculty member. Contact department for additional information.*

**Contact department for information to register for this course.**

**ECON601** **Macroeconomic Analysis I**

(Perm req)

*Restriction: Permission of BSOS-Economics department.*

*Introductory technical treatment of standard Keynesian, classical and new classical macroeconomic models. Expectations formation and microeconomic foundations of consumption, investment, money demand, and labor market behavior.*

| | | | |
|---|---|---|---|
| 0101 | John Shea, Boragan Aruoba | Seats (Total: 45) | |
| | MW 12:30pm - 1:45pm | TYD 2102 | |
| | M 5:00pm - 6:45pm | TYD 2102 | Discussion |

**ECON603** **Microeconomic Analysis I**

(Perm req)

*Restriction: Permission of BSOS-Economics department.*

*A detailed treatment of the theory of the consumer and of the firm, particularly emphasizing the duality approach. Topics include the household production model, imperfect competition, monopolistic and oligopolistic markets.*

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|---|---|---|---|
| 0101 | Lawrence Ausubel, Emel Filiz Ozbay | Seats (Total: 50) | |
| | TuTh 2:00pm - 3:15pm | TYD 1132 | |
| | Tu 5:15pm - 6:45pm | TYD 2106 | Discussion |

**ECON616** **Economic Development II**

*Prerequisite: ECON615, ECON603, and ECON604; or permission of BSOS-Economics department.*

*Survey of a variety of models explaining how market failures may lead to poverty and underdevelopment, with an emphasis on the empirical evaluation of constraints faced by individuals in developing countries and the programs that attempt to alleviate those constraints. Topics include: agricultural and land markets, labor markets, human capital in developing countries, credit markets, and consumption smoothing and risk coping.*

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|---|---|---|
| 0101 | Jessica Goldberg | Seats (Total: 30) |
| | MW 2:00pm - 3:15pm | TYD 2111 |

**ECON623** **Econometrics I**

(Perm req)

*Prerequisite: Must have advanced knowledge of probability, statistics, and linear algebra. Restriction: Permission of BSOS-Economics department.*

*Topics covered include problems of specification, estimation, hypothesis testing, and prediction in linear models. Topics include: classical linear regression and ordinary least squares, generalized linear models and generalized least squares, identification and estimation of simultaneous equation models including discussion of two-stage and three-stage least squares and other instrumental variable estimation methods. Both finite and large sample analysis of econometric procedures will be covered, and there will also be discussion of general hypothesis testing principles including discussion of misspecification tests. In addition, the course will provide instructions on the use of a major statistical package such as Stata.*

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|---|---|---|---|
| 0101 | Guido Kuersteiner | Seats (Total: 41) | |
| | TuTh 11:00am - 12:15pm | TYD 1118 | |
| | W 5:30pm - 7:15pm | TYD 2102 | Discussion |

**ECON625** **Computational Economics**

*Prerequisite: ECON604 and ECON624. Credit only granted for: ECON625 or ECON698R. Formerly: ECON698R.*

*An examination of the specification, computation, estimation and interpretation of structural models that are widely used in Industrial Organization, and in a range of other applied microeconomic contexts (marketing and public, environmental, education and urban economics). The focus will be on the connections between these models and relevant economic theories, and on the details of their implementation in practice.*

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|---|---|---|---|
| 0101 | Andrew Sweeting | Seats (Total: 20) | |
| | TuTh 11:00am - 12:15pm | TYD 2109 | |

**ECON626** **Empirical Microeconomics**

(Perm req)

*Prerequisite: ECON624. Restriction: Must be in Economics (Doctoral) program.*

*An overview is provided of modern microeconometric methods with a focus on reduced form causal inference. Tools discussed include linear regression and selection on observables, instrumental variables including LATE and the role of heterogeneity in causal inference, difference-in-difference, regression discontinuity, synthetic control, matching, propensity score methods, and inverse probability weighted estimation. In addition, inferential issues such as weak instruments and techniques for robust standard errors, clustering, bootstrap and randomized inference are discussed, time permitting. The course places strong emphasis on relating statistical methods to substantive empirical applications. Each topic is introduced with an empirical paper that uses the technique. The discussion of technical material is at an intuitive level that focuses on applications and recommendations for empirical practice. The course offers an opportunity to work on a number of extended empirical exercises that are based on published papers and original data. Students practice working with data, implementing code in Stata and conducting their own empirical analysis. These exercises also offer practice in scientific writing relevant for empirical work.*

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|---|---|---|---|
| 0101 | Guido Kuersteiner | Seats (Total: 23) | |
| | TuTh 5:00pm - 6:15pm | TYD 0101 | |
| | M 5:00pm - 6:15pm | TYD 1108 | Discussion |

**ECON630** **Computational Methods in Macroeconomics**

*Prerequisite: ECON602 and ECON601. Restriction: Must be in one of the following programs (Economics (Master's); Economics (Doctoral)) ; or permission of BSOS-Economics department.*

*Essential computational methods used in macroeconomics. There will be particular focus on approximating the solution to dynamic stochastic general equilibrium models. Methods for representative-agent and heterogeneous-agent models will be extensively studied. Econometric methods such as Generalized Method of Moments, Maximum Likelihood, Vector Autoregressions wil also be covered.*

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|---|---|---|
| 0101 | Boragan Aruoba | Seats (Total: 16) |
| | MW 10:30am - 11:45am | TYD 1108 |

**ECON635** **Experimental Economics**

(Perm req)

*Restriction: Permission of instructor.*

*An introduction to the methodology of laboratory and field experiments. The course concentrates on a series of experiments to show how experiments build on one another, allowing researchers with different theoretical dispositions to narrow the range of potential disagreement.*

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|---|---|---|
| 0101 | Erkut Ozbay | Seats (Total: 20) |
| | TuTh 2:00pm - 3:15pm | TYD 0101 |

**ECON637** **Decision Theory**

*Prerequisite: ECON603 and ECON604. Restriction: Must be in the Economics program; or must have completed ECON603 and ECON604 with a letter grade of B+ or better. Credit only granted for: ECON698B or ECON637. Formerly: ECON698B.*

*Decision making is a process in which we select a course of action among available options. This course will explore the various behavioral biases observed in decision making processes by adjusting our normative theories to capture these biases.*

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|---|---|---|
| 0101 | Yusuf Masatlioglu | Seats (Total: 20) |
| | Th 9:30am - 12:15pm | LEF 1221 |

**ECON641** **Microeconomic Analysis**

*Restriction: Must be in M.Prof.Studies: Applied Economics program; or permission of BSOS-Economics department. Credit only granted for: ECON641 or ECON506. Formerly: ECON506.*

*Microeconomic analysis applied to public policy problems with an emphasis on practical examples and how they illustrate microeconomic theories. Policy issues such as pollution, welfare and income distribution, market design, industry regulation, price controls, tax policy and health insurance are practical examples used to illustrate the abstract principles of microeconomics.*

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|---|---|---|---|
| PCE1 | Filipe Lage de Sousa | Seats (Total: 26) | |
| | M 6:30pm - 9:15pm | TYD 0102 | |
| | *Must be in Graduate Programs in Applied Economics, UMCP. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | | |
| PR01 | Aaron Finkle | Seats (Total: 23) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | Tu 6:45pm - 9:30pm<br>Class time/details on ELMs | Location: TBA<br>ONLINE | Discussion |
| | *Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section. This section will be mostly in-person, with weekly in-person meetings at the noted times. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.* | | |

**ECON642** **Topics in Applied Macroeconomics**

*Restriction: Must be in M.Prof.Studies: Applied Economics program; or permission of BSOS-Economics department.*

*Focus is on applied macroeconomic models used by federal agencies to explain and predict economic behavior. Course emphasizes macroeconomic data: NIPA accounts, GDP, construction and application of CPI, labor force data and economic indicators. Students will also study a selected set of current macroeconomic topics including models of economic growth, economic fluctuations, monetary policy, inflation and financial markets.*

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|---|---|---|---|
| PCE1 | Colin Caines | Seats (Total: 26) | |
| | Tu 6:30pm - 9:15pm | TYD 2102 | |
| | *Must be in Graduate Programs in Applied Economics, UMCP. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | | |

**ECON643** **Empirical Analysis I: Foundations of Empirical Research**

*Credit only granted for: ECON643 or ECON521.  Formerly: ECON521.*

*Fundamental aspects of data management and interpretation emphasizing sampling, descriptive statistics, index numbers and construction of aggregated variables. Students will learn probability theory, confidence intervals, hypothesis testing and regression analysis using the EXCEL spreadsheet program and STATA statistical software.*

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|---|---|---|---|
| PCE1 | John Straub | Seats (Total: 26) | |
| | W 6:30pm - 9:15pm | TYD 0102 | |
| | *Must be in Graduate Programs in Applied Economics, UMCP. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | | |
| PR01 | Filipe Lage de Sousa | Seats (Total: 23) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | Th 6:45pm - 9:30pm<br>Class time/details on ELMs | Location: TBA<br>ONLINE | Discussion |
| | *Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section. This section will be mostly in-person, with weekly in-person meetings at the noted times. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.* | | |

**ECON645** **Empirical Analysis III: Econometric Modeling and Forecasting**

*Prerequisite: ECON644. Credit only granted for: ECON645 or ECON523. Formerly: ECON523.*

*Study of empirical techniques that are particularly relevant to the analysis of microeconomic models. Emphasis is on advanced panel data methods, time series regressions, instrumental variables, limited dependent variables, and sample selection corrections.*

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|---|---|---|---|
| PCE1 | Ye Zhang | Seats (Total: 26) | |
| | M 6:30pm - 9:15pm | TYD 2106 | |
| | *Must be in Graduate Programs in Applied Economics, UMCP. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | | |
| PR01 | Samuel Rowe | Seats (Total: 23) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | W 6:45pm - 9:30pm<br>Class time/details on ELMs | Location: TBA<br>ONLINE | Discussion |
| | *Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section. This section will be mostly in-person, with weekly in-person meetings at the noted times. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.* | | |

**ECON664** **Empirical Studies in Industrial Organization**

*Prerequisite: ECON603, ECON604, and ECON624. Credit only granted for: ECON664 or ECON698J. Formerly: ECON698J.*

*Introduces students to the recent empirical literature of industrial organization. It consists of four themes: pricing and contracting; cartels, collusion and merger reviews; demand estimation; and information economics.*

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|---|---|---|
| 0101 | Ginger Jin | Seats (Total: 20) |
| | MW 10:30am - 11:45am | TYD 0101 |

**ECON670** **Financial Economics**

*Prerequisite: ECON641; and must have completed or be concurrently enrolled in ECON644. Restriction: Must be in M.Prof.Studies: Applied Economics program.*

*The course applies microeconomic theory and applied econometric techniques to the study of financial institutions and markets for financial assets. Students will learn how economists model and estimate the value of financial assets. The economic and empirical models are of interest to public policy makers and private wealth managers. Specific topics can include financial intermediation, the regulation of financial institutions, risk management, portfolio theory, the capital asset pricing model and the efficient markets hypothesis.*

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|---|---|---|---|
| PR01 | Joonkyu Choi | Seats (Total: 23) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | W 6:45pm - 9:30pm<br>Class time/details on ELMs | Location: TBA<br>ONLINE | Discussion |

*Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section. This section will be mostly in-person, with weekly in-person meetings at the noted times. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.*

**ECON674** **Economic Analysis of Law**

*Prerequisite: ECON641; and must have completed or be concurrently enrolled in ECON644.*

*A study of the application of economics to law with a focus on game theory, strategic behavior and public policy.*

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|---|---|---|---|
| PR01 | Yong Paek | Seats (Total: 23) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | M 6:45pm - 9:30pm<br>Class time/details on ELMs | Location: TBA<br>ONLINE | Discussion |
| | *Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section. This section will be mostly in-person, with weekly in-person meetings at the noted times. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.* | | |

**ECON676** **Economic Development**

*Prerequisite: ECON641; and ECON642; and must have completed or be concurrently enrolled in ECON644. Restriction: Must be in M.Prof.Studies: Applied Economics program.*

*Analysis of economic development. The course will focus on the consequences of poverty and poor institutions for the behavior and welfare of individuals, households, firms and the aggregate economy in developing countries. Theoretical models and empirical evidence will be used to understand the intended and unintended consequences of policies designed to enhance economic development.*

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|---|---|---|---|
| PCE1 | Steven Payson | Seats (Total: 26) | |
| | W 6:30pm - 9:15pm | TYD 2109 | |
| | *Must be in Graduate Programs in Applied Economics, UMCP. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | | |

**ECON683** **International Macroeconomics and Finance**

*Prerequisite: ECON641 and ECON642; and must have completed or be concurrently enrolled in ECON644. Restriction: Must be in M.Prof.Studies: Applied Economics program.*

*Economic analysis of international macroeconomic issues and policy. Topics can include the study of exchange rates, balance of payments, international financial markets, international business cycles, contagion, and the roles played by international economic institutions.*

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|---|---|---|---|
| PCE1 | Mahsa Agha Gholizadeh | Seats (Total: 26) | |
| | Tu 6:30pm - 9:15pm | TYD 2109 | |
| | *Must be in Graduate Programs in Applied Economics, UMCP. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | | |

| | | | |
|---|---|---|---|
| PR01 | Thomas Rumbaugh | Seats (Total: 23) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | Th 6:45pm - 9:30pm<br>Class time/details on ELMs | Location: TBA<br>ONLINE | Discussion |
| | *Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section. This section will be mostly in-person, with weekly in-person meetings at the noted times. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.* | | |

**ECON687** **Economics Applications of R Programming**

*Prerequisite: Must have completed or be concurrently enrolled in ECON645. Restriction: Must be in Applied Economics Master of Science program; or permission of the program director.*

*Builds on the data analysis and econometric skills learned in the Empirical analysis sequence of ECON 643, 644, and 645. The STATA skills acquired in that sequence, such as basic data manipulation and econometric estimation, will be extended to the R programming language. The fundamentals of more advanced scientific programming--objects, data structures, loops, functions, simulation, parallel computing--will be introduced with applications to economics and the social sciences. Additional emphasis is placed on good coding practices and tools for version control and collaboration such as Git and R Markdown.*

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|---|---|---|---|
| PCE1 | Christian Krestel | Seats (Total: 26) | |
| | Th 6:30pm - 9:15pm | TYD 2102 | |
| | *Must be in Graduate Programs in Applied Economics, UMCP. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | | |
| PR01 | Christopher Adams | Seats (Total: 23) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | Tu 6:45pm - 9:30pm<br>Contact instructor or department for details. | Location: TBA | |
| | *Must be in Graduate Programs in Applied Economics, WDC. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section. This section will be mostly in-person, with weekly in-person meetings at the noted times. The weekly class meetings will be at 1400 16th Street, NW in Washington, DC. The online requirements will include mandatory weekly online discussions. Some additional online content may be required.* | | |

**ECON698D** **Selected Topics in Economics; Advanced Labor Economics: Theory and Evidence**
**Contact department for information to register for this course.**

**ECON701** **Advanced Macroeconomics I**

*Prerequisite: ECON602 and ECON601.*

*Recent developments in macroeconomics with an emphasis on topics and techniques useful for conducting research in macroeconomics. Topics include advanced treatment of fiscal and monetary policy issues; the role of imperfect competition; real, sectoral and nominal business cycle models.*

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|---|---|---|
| 0101 | John Haltiwanger | Seats (Total: 20) |
| | MW 2:00pm - 3:15pm | TYD 0102 |

**ECON703** **Advanced Microeconomics I**

*Prerequisite: ECON604 and ECON603.*

*A formal treatment of game theory and its microeconomic applications is presented. Equilibrium concepts for static and dynamic games, and games with complete and incomplete information are studied. Topics also discussed: the relation between games in strategic form and games in extensive form, equilibrium refinement, Bayesian games, multi-dimensional mechanism design, dominant strategy and Bayesian implementation, Nash-in-Nash bargaining solutions.*

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|---|---|---|
| 0101 | Daniel Vincent | Seats (Total: 20) |
| | TuTh 12:30pm - 1:45pm | TYD 1114 |

**ECON708** **Advanced Topics in Applied and Theoretical Microeconomics**

(Perm req)

*Read, discuss, and analyze current topics in microeconomics, including public economics, environmental economics, labor economics, industrial economics, microeconomic theory, public choice and international trade. Specific topics covered will change from semester to semester depending on the students' and faculty's interests. Intended primarily for students beginning thesis research in economics.*

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|---|---|---|
| 0601 | Sergio Urzua | Seats (Total: 45) |
| | MW 12:30pm - 1:45pm | TYD 2109 |

**ECON709** **Advanced Topics in Applied and Theoretical Macroeconomics**

(Perm req)

*Read, discuss, and analyze current topics in macroeconomics, including asset pricing models, models of economic growth, investment, and the labor market. Specific topics covered will change from semester to semester depending on the students' and faculty's interests. Intended primarily for students beginning thesis research in economics.*

| | | |
|---|---|---|
| 0101 | John Shea | Seats (Total: 45) |
| | TuTh 12:30pm - 1:45pm | TYD 4103 |

**ECON721** **Econometrics III**

*Prerequisite: ECON624; or permission of BSOS-Economics department.*

*Oriented towards macro-econometric methods. Topics covered will be selected from the following: Further discussion of topics covered in ECON624, non-stationary time series models (models with deterministic trends, unit roots, co-integration, error correction models, vector autoregressive models), econometric models of conditional heteroskedasticity (ARCH and GARCH models), Bayesian econometrics and methods for Bayesian computation, large-dimensional factor analysis, models of changes in regime, and methods for time series forecasting.*

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|---|---|---|
| 0101 | John Chao | Seats (Total: 20) |
| | TuTh 5:00pm - 6:15pm | TYD 1108 |

**ECON741** **Advanced International Economics I**

*Prerequisite: ECON601; or permission of BSOS-Economics department.*

*International Business Cycles; Exchange Rate Determination; Imperfect Financial Markets; Deviations from Full Information Rational Expectations; Monetary and Exchange Rate Policy*

| | | |
|---|---|---|
| 0101 | Pierre De Leo | Seats (Total: 16) |
| | TuTh 2:00pm - 3:15pm | TYD 1108 |

**ECON744** **Advanced Topics in International Economics**

*Prerequisite: ECON601 and ECON602. Credit only granted for: ECON698M or ECON744. Formerly: ECON698M.*

*Focuses on key topics in international macroeconomics. We will cover classic and recent papers on business cycles, exchange rates, capital flows, monetary and fiscal policy, sovereign debt, default, and currency denomination. The course will be orientated towards students initiating research in the field.*

| | | |
|---|---|---|
| 0101 | Pablo Ottonello | Seats (Total: 15) |
| | Tu 9:30am - 12:15pm | TYD 3100 |

**ECON754** **Theory of Political Economy**

*Prerequisite: ECON603 and ECON604; or permission of BSOS-Economics department.*

*Basic Electoral Models of Aggregating Preferences and Information. Political Participation and Voter Turnout. Pivotal and Ethical Voters. Opportunistic versus Policy-Motivated Candidates. Credibility of Policy. Political Agency and Accountability - Moral Hazard and Selection. Legislatures - Legislative Bargaining and Legislative Dynamics. Special Interest Politics. Campaign Financing. Political Polarization and Ambiguity. Behavioral Political Economy. Populism and Authoritarianism. Political Parties.*

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|---|---|---|
| 0101 | Allan Drazen | Seats (Total: 20) |
| | MW 10:30am - 11:45am | TYD 3100 |

**ECON771** **Advanced Labor Economics: Theory and Evidence**

(Perm req)

*Prerequisite: ECON603 and ECON624; or permission of BSOS-Economics department. Restriction: Must be in the Economics Doctoral program.*

*Provides students the theoretical background and econometric tools to engage and conduct research in labor economics. The course highlights the importance of a good balance between theory and solid empirical work. The topics include human capital, empirical earning functions, labor demand, incentive, discrimination, minimum wage, labor supply, tasks and skills, and inequality. In addition, it goes over essential topics in applied economics, including selection bias, instrumental variables, structural vs. reduced-form analysis, dynamic discrete choice models, and unobserved heterogeneity. During the term, students work with different data sets.*

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|---|---|---|
| 0101 | Judith Hellerstein<br>MW 9:00am - 10:15am | Seats (Total: 10)<br>TYD 1108 |

**ECON799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**ECON808** **Workshop on Macroeconomics, International Macroeconomics and International Finance; Workshop in Applied Economics**

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|---|---|---|
| 0101 | Boragan Aruoba<br>W 3:30pm - 5:30pm | Seats (Total: 40)<br>TYD 4103 |

**ECON828** **Workshop in Econometrics**

*Current research in econometrics. Topics drawn from theoretical and applied econometrics. Special topics include: maximum likelihood and generalized method of moments estimation of linear and non-linear models, analysis of stationary and non-stationary time series, cross section time series estimation, spatial estimation mehtods, Bayesian methods, semi-and non-parametic methods, rational expectations models, numerical methods, and various applications.*

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|---|---|---|
| 0101 | John Chao<br>M 3:30pm - 6:00pm | Seats (Total: 20)<br>TYD 4103 |

**ECON868** **Workshop in Industrial Organization, Microeconomic Theory and Behavioral and Experimental Economics**

*Workshops designed to provide a structured environment for our faculty and graduate students to meet regularly to discuss and present their research ideas.*

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|---|---|---|
| 0101 | Yusuf Masatlioglu<br>Tu 3:30pm - 5:30pm | Seats (Total: 40)<br>TYD 4103 |

**ECON878** **Workshop in Development, Labor and Public Economics**

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|---|---|---|
| 0101 | Jessica Goldberg<br>Th 3:30pm - 5:30pm | Seats (Total: 40)<br>TYD 4103 |

**ECON898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**ECON899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# EDCP Education Counseling and Personnel Services Fall 2024

**EDCP108C** **College and Career Advancement: Concepts and Skills; Career Clarification - Choosing Your Major and Career**

*Knowledge and skills designed to enhance college as a learning experience or preparation for life.*

Restricted to students with 60 credits or less. Figuring out what to study and work on is a hard problem, and one that you will be trying to solve multiple times in your life as you grow and evolve. The "Choosing Your Major and Career" course is a guided self-discovery experience where you learn more about yourself, the fields you are interested in, and the supporting tools and frameworks that you can come back to throughout your life when evaluating your professional goals. During the semester, you will engage with course content, work with your classmates, and complete projects and reflections to gain a deeper understanding of what drives you, what you are good at, and which majors and careers align with those interests and skills. You will also participate in three one-on-one coaching sessions. This course is one of the offerings of the Intentional Life Lab.

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|---|---|---|
| 0101 | Jessica Roffe<br>M 3:00pm - 3:50pm | Seats (Total: 24)<br>EDU 3236 |

**EDCP108I** **College and Career Advancement: Concepts and Skills; Academic Transitions to Internships**

*Knowledge and skills designed to enhance college as a learning experience or preparation for life.*

Restricted to students with less than 105 cumulative credits. Recommended for students who have never had an internship and are actively searching for one. Students participating in this course will engage in the full experience of searching for an internship Course registration is closed to graduating seniors.

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|---|---|---|
| 0101 | Marisha Addison<br>**Meets August 26, 2024 - October 15, 2024**<br>Class time/details on ELMs | Seats (Total: 40)<br><br>ONLINE |

| | | |
|---|---|---|
| 0301 | Marisha Addison<br>**Meets October 21, 2024 - December 9, 2024**<br>Class time/details on ELMs | Seats (Total: 40)<br><br>ONLINE |
| 0401 | Jeffrey Quinteros Ceron<br>**Meets October 21, 2024 - December 9, 2024**<br>Class time/details on ELMs | Seats (Total: 40)<br><br>ONLINE |
| 0501 | Veronica Perrigan, Lizzy Solovey, Brianne Gridley<br>**Meets October 21, 2024 - December 9, 2024**<br>Class time/details on ELMs<br>*Restricted to College of Engineering students only.* | Seats (Total: 30)<br><br>ONLINE |
| 0701 | Piper Holly<br>**Meets August 26, 2024 - October 15, 2024**<br>Class time/details on ELMs<br>*This section is restricted to CMNS students only.* | Seats (Total: 30)<br><br>ONLINE |
| 0801 | Julie Randolph<br>**Meets August 26, 2024 - October 15, 2024**<br>Class time/details on ELMs<br>*Restricted to Civic Engagement for Social Good students only.* | Seats (Total: 30)<br><br>ONLINE |
| 0901 | Caroline Bodnar<br>**Meets August 26, 2024 - October 15, 2024**<br>Class time/details on ELMs<br>*Restricted to College of Arts & Humanities students only.* | Seats (Total: 30)<br><br>ONLINE |

**EDCP210** **Peer Counseling Skills and Mental Health Advocacy**

*Restriction: Must not have completed EDCP310; and must not have completed PSYC433. Credit only granted for: EDCP210, EDCP310, or PSYC433.*

*Introduction to core helping skills in peer counseling settings and three predominant theoretical approaches used in the counseling field (humanistic, psychodynamic, cognitive-behavioral). The course also explores mental health stigma and advocacy. Students will build an understanding of the practical application of underlying principles and theory in counseling and the helping professions, while exploring their own, and societal, biases, assumptions, and attitudes toward mental health.*

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|---|---|---|
| 0101 | Sarah Zimmerman<br>MW 3:30pm - 4:45pm | Seats (Total: 18)<br>TWS 1313 |
| 0201 | Michelle Thomas<br>TuTh 12:30pm - 1:45pm | Seats (Total: 18)<br>PAC 1815 |
| 0401 | Roxanne Odiorne<br>TuTh 11:00am - 12:15pm | Seats (Total: 18)<br>EDU 3233 |
| 0501 | Genesis Genao<br>MW 11:00am - 12:15pm | Seats (Total: 18)<br>EDU 3233 |

**EDCP230** **The Science and Practice of Happiness and Psychological Well-Being**

*An introduction to theory and research on positive psychology, subjective well-being, and the psychology of happiness. This will include examination of hedonic and eudaimonic models of well-being and sociocultural understandings of happiness, together with how it relates to health, relationships, money, religion, work, and social media. Students will also explore common misconceptions and myths about happiness and well-being and will engage in a variety of activities designed to deepen their understanding of happiness in their own lives and broader societal trends related to well-being.*

| | | |
|---|---|---|
| 0101 | Isabella Stoto<br>TuTh 10:00am - 11:15am | Seats (Total: 20)<br>EDU 3236 |
| 0201 | Bridget Moran<br>TuTh 4:00pm - 5:15pm | Seats (Total: 18)<br>HBK 0108 |

**EDCP298** **Special Problems in Counseling and Personnel Services**

*Individual instruction in special problems related to counseling, student leadership, and college student development.*

**Contact department for information to register for this course.**

**EDCP298Z** **Special Problems in Counseling and Personnel Services; British Life and Society in a Cross-Cultural Context**

*Individual instruction in special problems related to counseling, student leadership, and college student development.*

**Contact department for information to register for this course.**

**EDCP386** **Experiential Learning**

(Perm req)

*Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department; and sophomore standing or higher.*

Special EDCP form required.

**Contact department for information to register for this course.**

**EDCP489** **Field Experiences in Counseling and Personnel Services**

(Perm req)

*Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.*

**Contact department for information to register for this course.**

**EDCP498** **Special Problems in Counseling and Personnel Services**

(Perm req)

*Available only to major students who have formal plans for individual study of approved problems.*

**Contact department for information to register for this course.**

**EDCP498T** **Special Problems in Counseling and Personnel Services; Contextual Leadership-Teaching Assistant**

(Perm req)

*Available only to major students who have formal plans for individual study of approved problems.*

| | | |
|---|---|---|
| 0101 | Victoria Shay<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE |

**EDCP610** **Professional Orientation**

*Survey of knowledge base and practices in counseling and personnel services specializations, professional ethics, credentialling relevant legislation, current issues.*

For Student Affairs students only.

| | | |
|---|---|---|
| 0101 | Bridget Kelly<br>M 4:30pm - 7:15pm<br>Class time/details on ELMs<br>*Restriction: Must be a student in Student Affairs.* | Seats (Total: 15)<br>PAC 1815<br>ONLINE |
| 0201 | Natasha Wyatt<br>M 4:15pm - 7:00pm<br>*Limited to School Counseling Students.* | Seats (Total: 20)<br>EDU 1315 |

**EDCP614** **Counseling Skills: Introduction to Practicum**

*Corequisite: EDCP616.*

*Development and utilization of counseling skills.*

| | | |
|---|---|---|
| 0101 | Jorinna Tran<br>W 1:00pm - 3:50pm | Seats (Total: 20)<br>EDU 2101 |

**EDCP615** **Counseling I: Appraisal**

*Corequisite: EDCP618. Restriction: Must be in a major within EDUC-Counseling, Higher Education and Special Education department.*

*Collection and interpretation of appraisal data, synthesis of data through case study procedures. Development of interview skills.*

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|---|---|---|
| 0101 | Jorinna Tran<br>W 4:15pm - 7:00pm | Seats (Total: 16)<br>EDU 3236 |

**EDCP616** **Counseling II: Theory and Practice**

*Corequisite: EDCP614.*

*Counseling theories and the practices which stem from such theories.*

For EDCP majors only.

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|---|---|---|
| 0101 | Jessica McKechnie<br>Th 4:15pm - 7:00pm<br>*Limited to Students in the Masters Program.* | Seats (Total: 22)<br>EDU 2101 |

**EDCP619B** **Practicum in Counseling**

*Sequence of supervised counseling experiences of increasing complexity. Limited to eight applicants in advance. Two hours class plus laboratory.*

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|---|---|---|
| 0101 | Carlton Green<br>Tu 1:00pm - 3:45pm<br>Contact instructor or department for details.<br>*Restricted to second-year Student Affairs masters students approved for Counseling Practicum participation.* | Seats (Total: 4)<br>Location: TBA |

**EDCP622** **Human Development in the Counseling Context**

*Credit only granted for: EDCP789X or EDCP622. Formerly: EDCP789X.*

*An examination of the development of individuals over the lifespan. A focus on human development theories and the ways in which those theories are utilized within the counseling process to promote optimal development of individuals and families across the lifespan.*

| | | |
|---|---|---|
| 0101 | Paul Gold<br>W 4:15pm - 7:00pm | Seats (Total: 20)<br>ONLINE |

**EDCP635** **School Consultation I**

*Restriction: Must be in the School Counseling program; or must be in the School Psychology program; or permission of instructor.*

*Designed to prepare students to lead programs and employ consultation and collaboration strategies in the development and implementation of data driven school counseling programs. Students will learn leadership and school-based consultation principles, theories, skills, and models necessary to address mental health, academic, and behavior issues in the school. Emphasis is placed on the role of the school counselor as a systemic change agent. Ultimately, the course will assist future school counselor leaders to build effective stakeholder collaboration and consultation teams that promote equitable services for all K-12 students.*

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|---|---|---|
| 0101 | Colleen O'Neal<br>M 9:00am - 12:00pm | Seats (Total: 10)<br>PLS 1168 |

**EDCP640** **School Psychology Seminar: Overview of the Specialty**

*Restriction: Must be in the School Psychology program; or permission of instructor.*

*Overviews the specialty of school psychology, including history of the specialty, roles and functions of school psychologists, and current professional issues related to the specialty.*

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|---|---|---|
| 0101 | Colleen O'Neal<br>Tu 12:45pm - 3:30pm | Seats (Total: 10)<br>EDU 2101 |

**EDCP641** **School Psychology Seminar: Professional Ethics**

*Restriction: Must be in the School Psychology program; or permission of instructor.*

*Overviews ethical issues in the specialty of school psychology.*

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|---|---|---|
| 0101 | Colleen O'Neal<br>Contact instructor or department for details. | Seats (Total: 10) |

**EDCP652** **Research in Counseling**

*Restriction: Must be in the School Counseling program. Credit only granted for: EDCP652 or EDCP789Y. Formerly: EDCP789Y.*

*An exploration of basic and applied research, program evaluation, and associated measurement and evaluation skills crucial for professional school counselors.*

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|---|---|---|
| 0101 | Ileana Gonzalez<br>Tu 4:15pm - 7:00pm | Seats (Total: 16)<br>EDU 2102 |

**EDCP682** **Counseling Psychology Didactic Practicum in Group Interventions**

*Prerequisite: For Counseling Psychology majors only. Cross-listed with: PSYC682. Formerly: EDCP718.*

*In depth examination of theories and techniques of group interventions; supervised experience in group counseling.*

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|---|---|---|
| 0101 | Pepper Phillips | Seats (Total: 5) |
| | W 2:00pm - 5:00pm | Location: TBA |

**EDCP685** **Counseling Psychology Didactic Practicum in Counseling Supervision**

*Restriction: Must be in the Counseling Psychology program. Cross-listed with: PSYC685. Formerly: EDCP745.*

*In depth examinatin of theories and techniques of counseling supervision, supervised experience in the process of supervising counselors.*

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|---|---|---|
| 0101 | Delida Sanchez | Seats (Total: 10) |
| | Tu 11:00am - 1:45pm | JMZ 1226 |

**EDCP695** **Ethical and Professional Issues in Counseling Psychology**

*Prerequisite: Must be in the Counseling Psychology program. Also offered as: PSYC695. Credit only granted for: EDCP669, EDCP688, EDCP695, PSYC688, or PSYC695. Formerly: EDCP669 and EDCP688.*

*Exploration of ethical and professional issues in Counseling Psychology.*

| | | |
|---|---|---|
| 0101 | Roger Worthington | Seats (Total: 10) |
| | W 1:00pm - 3:45pm | SQH 1125 |

**EDCP697** **Multicultural Issues in Counseling Psychology**

*Prerequisite: Only open to Counseling Psychology majors. Credit only granted for: EDCP697, EDCP699, or PSYC697. Formerly: EDCP699.*

*Exploration of knowledge, attitudes and skills for providing counseling and psychological services to culturally diverse populations.*

| | | |
|---|---|---|
| 0101 | Richard Shin | Seats (Total: 15) |
| | W 2:00pm - 5:00pm | KNI 1105 |

**EDCP698** **Advanced Didactic Practicum in Counseling Psychology**

*In depth examination of approaches to or theories abouth intervention, and supervised experience in the application of those approaches or theories. Each practicum focuses on a particular approach, e.g., psychodynamic, cognitive-behavioral, cross-cultural.*

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|---|---|---|---|
| 0101 | Roger Worthington<br>Th 3:00pm - 6:00pm<br>*Limited to Counseling Psychology Students* | Seats (Total: 10)<br>Location: TBA | |

**EDCP700** **Theories and Strategies of Counseling Psychology**

*Prerequisite: For Counseling Psychology majors only. Cross-listed with: PSYC700. Formerly: EDCP789J.*

*Introduction to the professional field, examination of pertinent scientific and philosophical backgrounds, and survey of the major theories, principles, and training models in counseling. Correlated laboratory analogue experiences in dydactic and group interrelationships.*

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|---|---|---|---|
| 0101 | Ruogu Wang<br>W 9:00am - 12:00pm<br>Tu 2:00pm - 5:00pm | Seats (Total: 10)<br>BPS 1234<br>BPS 2150H | <br><br>Lab |

**EDCP717** **Evaluation of Research in Counseling**

*Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.*

*Research on process and outcome in counseling. A review of research and appropriate research methodologies.*

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|---|---|---|
| 0101 | Chunyan Yang<br>Tu 12:45pm - 3:30pm | Seats (Total: 10)<br>EDU 2101 |

**EDCP738** **Practicum in Child Assessment**

*Administration of complete test batteries to children; supervision of initial interviews; test administration and scoring; interpretation and synthesis of test battery and interview material; the psychological report; verbal interpretation of test results; and recommendations. Taken initially with EDCP 633; repeated with EDCP 634 in the subsequent semester.*

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|---|---|---|
| 0101 | Megan Vaganek<br>W 5:45pm - 8:45pm | Seats (Total: 7)<br>Location: TBA |

**EDCP741** **Multicultural Practice in Student Affairs: Self, Education, and Society**

*Prerequisite: EDCP771. Credit only granted for: EDCP741 or EDCP789Z. Formerly: EDCP789Z.*

*Develop knowledge and skills in the area of multicultural practice in student affairs through the examination of oppression, power, and privilege and how these dynamics impact individuals, educational institutions, and societies.*

| | | |
|---|---|---|
| 0101 | Christopher Travers<br>W 2:00pm - 4:45pm | Seats (Total: 20)<br>MTH 0101 |

**EDCP746** **Clinical Supervision of Pupil Personnel Services**

(Perm req)

*Prerequisite: Advanced Doctoral Students Only. Restriction: Permission of instructor.*

*Supervision of role of psychologists and counselors in school settings; applied skills in supervision of services.*

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|---|---|---|
| 0101 | Chunyan Yang<br>Tu 4:00pm - 6:45pm | Seats (Total: 10)<br>LEF 1222 |

**EDCP772** **Research in Student Affairs**

*Prerequisite: EDCP656; or permission of instructor. Restriction: Must be in the College Student Personnel program.*

*Research designs and approaches to research in student development and higher education. Development of research for research competency or dissertation proposal.*

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|---|---|---|
| 0101 | Bridget Kelly<br>W 1:00pm - 4:00pm<br>Class time/details on ELMs | Seats (Total: 2)<br>EDU 1224<br>ONLINE |

**EDCP775** **Facilitating Student Learning in Higher Education**

*Prerequisite: EDCP771; or permission of EDUC-Counseling, Higher Education and Special Education department. Restriction: Must be in Counseling and Personnel Services (Doctoral) program.*

*Application of selected models of college student development, learning styles, and related models of instruction to the assessment of characteristics and the design of learning environments.*

| | | |
|---|---|---|
| 0101 | Candace Moore<br>W 5:00pm - 7:45pm<br>Class time/details on ELMs | Seats (Total: 15)<br>EDU 2101<br>ONLINE |

**EDCP789R** **Advanced Topics in Counseling and Personnel Services; College Teaching Seminar**

(Perm req)

| | | |
|---|---|---|
| 0101 | Michelle Espino<br>Contact instructor or department for details. | Seats (Total: 5) |
| 5101 | Candace Moore<br>Contact instructor or department for details. | Seats (Total: 2) |

**EDCP798** **Special Problems in Counseling and Personnel Services**

(Perm req)

*Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.*

**Contact department for information to register for this course.**

**EDCP798A** **Special Problems in Counseling and Personnel Services; Research Design and Proposal Writing Seminar**

*Master's AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number.*

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|---|---|---|
| 0101 | Michelle Espino<br>W 1:00pm - 3:45pm | Seats (Total: 10)<br>LEF 1221 |

**EDCP799** **Master's Thesis Research**

*Registration required to the extent of six hours for Master's thesis.*

**Contact department for information to register for this course.**

**EDCP870** **Professional Issues Seminar**

*Credit only granted for: EDCP656 or EDCP870. Formerly: EDCP656.*

*Examination of issues that bear on professional issues such as ethics, inter-professional relationships and research.*

For Student Affairs Doctoral Students Only.

| | | |
|---|---|---|
| 0101 | Christopher Travers<br>Th 2:00pm - 4:45pm<br>Class time/details on ELMs | Seats (Total: 10)<br>CHE 2145<br>ONLINE |

**EDCP871** **Student Affairs Doctoral Capstone Seminar**

*Prerequisite: EDCP870; or permission of instructor. Restriction: Must be in the College Student Personnel program. Credit only granted for: EDCP789I or EDCP871. Formerly: EDCP789I.*

*Broadening perspectives on issues in student affairs and higher education by exploring the multiple roles and responsibilities of campus administrators and faculty members.*

| | | |
|---|---|---|
| 0101 | James McShay, Patty Perillo<br>Th 3:00pm - 5:45pm | Seats (Total: 20)<br>LEF 1221 |

**EDCP879** **Internship in School Counseling**

*Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.*

| | | |
|---|---|---|
| 0101 | Jessica McKechnie<br>Th 7:00pm - 9:45pm | Seats (Total: 16)<br>EDU 3236 |

**EDCP888** **Apprenticeship in Counseling and Personnel Services**

(Perm req)

*Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.*

**Contact department for information to register for this course.**

**EDCP888A** **Apprenticeship in Counseling and Personnel Services; College Student Personnel**

*Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.*

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|---|---|---|
| 0101 | Kristan Skendall, Marsha Guenzler-Stevens<br>Contact instructor or department for details. | Seats (Total: 10) |

**EDCP888C** **Apprenticeship in Counseling and Personnel Services; School Psychology**

*Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.*

| | | |
|---|---|---|
| 0101 | Annie Goldthrite<br>W 5:00pm - 8:00pm | Seats (Total: 15)<br>Location: TBA |
| 0201 | Hedwig Teglasi<br>W 2:00pm - 4:45pm | Seats (Total: 15)<br>ATL 1106 |
| 3901 | Cixin Wang<br>Contact instructor or department for details. | Seats (Total: 10) |

**EDCP889** **Internship in Counseling and Personnel Services; Internship in Counseling and Personnel Services**

*Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.*

**Contact department for information to register for this course.**

**EDCP889C** **Internship in Counseling and Personnel Services**

(Perm req)

*Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.*

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|---|---|---|
| 0101 | Jioni Lewis<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0102 | Cixin Wang<br>Contact instructor or department for details. | Seats (Total: 10) |

**EDCP898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**EDCP899** **Doctoral Dissertation Research**

(Perm req)

*Registration required to the extent of 12-18 hours for a Ph.D. Dissertation.*

**Contact department for information to register for this course.**

# EDHD Education, Human Development Fall 2024

**EDHD200** **Paradigms and Perspectives in Human Development**

*Restriction: Must have 45 or fewer credits; or must be in the Human Development program or Human Development minor.*

*An introduction to the paradigms and perspectives that guide the study of human development across the lifespan in cognitive, social, physical and emotional domains. Topics of study include overlying principles, concepts, assumptions, theoretical frameworks, and research methods that influence ways in which development is conceptualized. The course is designed to provide insight into major questions of the day in human development and how these prevailing perspectives have evolved over time. This course will also help students understand how knowledge of theory and research is translated into practice in a variety of professional settings.*

Restricted to Human Development majors and minors

| | | |
|---|---|---|
| 0101 | Lucas Butler<br>TuTh 11:00am - 12:15pm | Seats (Total: 40)<br>ARC 1103 |
| 0301 | Teresa Garcia<br>MW 8:00am - 9:15am | Seats (Total: 40)<br>EDU 1107 |
| 0401 | Megan Hurley<br>MW 11:00am - 12:15pm | Seats (Total: 40)<br>ONLINE |

**EDHD201** **Learning How to Learn**

*Immerses students in the theoretical and empirical study of learning by engaging them in orchestrated experiences and activities drawn directly from the disciplinary research. Students achieve deep understanding of their own learning, as well as the means of enhancing that learning both in school and out-of-school contexts.*

| | | | |
|---|---|---|---|
| 0101 | Patricia Alexander<br>MW 11:00am - 11:50am<br>M 12:00pm - 12:50pm | Seats (Total: 30)<br>ESJ 2309<br>HBK 0123 | <br><br>Discussion |
| 0102 | Patricia Alexander<br>MW 11:00am - 11:50am<br>W 12:00pm - 12:50pm | Seats (Total: 30)<br>ESJ 2309<br>HBK 0103 | <br><br>Discussion |
| 0201 | Margaret Logan<br>TuTh 9:30am - 10:45am<br>*Restricted to students in the Human Development major or minor programs* | Seats (Total: 30)<br>ESJ B0320 | |
| FC01 | Alina Maki<br>TuTh 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 20)<br>TWS 0234 | |

**EDHD210** **Foundations of Early Childhood Education**

(Perm req)

*Restriction: Permission of EDUC-Human Development and Quantitative Methodology department.*

*Students explore historical and current research in early childhood education, primary models of curriculum and pedagogy in the field, and the relationship between critical aspects of young children's development and the creation of inclusive learning opportunities for all children, including children at risk. The concept of developmentally appropriate practice and its application across different developmental levels and early childhood classrooms will be introduced and connected with discussion in EDHD220 and EDSP211. Students examine issues in developing and implementing high quality early childhood education experiences for young children with and without disabilities, including the influence of family, culture, and community, the needs of children at risk (e.g., poverty, immigrant status, English Language Learners), and the role of assessment in early learning.*

| | | | |
|---|---|---|---|
| 0101 | Jennifer Smallwood-Holmes<br>Th 1:00pm - 3:45pm | Seats (Total: 25)<br>EDU 1107 | |

**EDHD220** **Exploring Early Childhood General and Special Education**

(Perm req)

*Restriction: Permission of EDUC-Human Development and Quantitative Methodology department.*

*Students who are considering a career in education will consider information about the teaching profession. Students reflect on their personal strengths, identify areas of growth, and examine their predisposition to work with young children with and without disabilities. They will discuss the nature of teaching, the moral and philosophic underpinnings that influenced their decision to enter into the teaching professions, as well as the roles and responsibilities of teachers and the characteristics and qualities for effective teachers (teaching styles and teacher's primary role in the classroom).*

| | | | |
|---|---|---|---|
| 0101 | Lisa Davis<br>W 2:00pm - 4:00pm<br>M 8:00am - 12:00pm | Seats (Total: 6)<br>EDU 1107<br>Location: TBA | Lab |
| 0102 | Lisa Davis<br>W 2:00pm - 4:00pm<br>Tu 8:00am - 12:00pm | Seats (Total: 7)<br>EDU 1107<br>Location: TBA | Lab |
| 0103 | Lisa Davis<br>W 2:00pm - 4:00pm<br>Th 8:00am - 12:00pm | Seats (Total: 6)<br>EDU 1107<br>Location: TBA | Lab |
| 0104 | Lisa Davis<br>W 2:00pm - 4:00pm<br>F 8:00am - 12:00pm | Seats (Total: 6)<br>EDU 1107<br>Location: TBA | Lab |

**EDHD228** **Research Experiences in Human Development**

(Perm req)

*Provides students with hands-on participation in faculty-supervised laboratory research activities in the Department of Human Development & Quantitative Methodology. Students will learn about the purpose of scientific research and engage in activities that advance their knowledge and skills with regard to its ethical practice.*

**Contact department for information to register for this course.**

**EDHD230** **Human Development and Societal Institutions**

*Development of the individual in the context of relationships with the formal and informal institutions of society. An examination of various aspects of development from the broad perspective of the social sciences.*

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|---|---|---|---|
| 0201 | Jannah Fusenig<br>MW 12:30pm - 1:45pm | Seats (Total: 40)<br>EDU 1121 | |
| FC01 | Jannah Fusenig<br>MW 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection* | Seats (Total: 20)<br>KNI 1206 | |

**EDHD241** **Are Two Languages Better than One: The Science and Controversy of Bilingualism**

*Examines the big question: Are two languages better than one? We will study the science of bilingualism: contemporary theories; research; controversies surrounding bilingual education; nature vs. nurture; first language acquisition. Additional studies cover: who is bilingual, how children become bilingual, factors that influence bilingual development, bilingual benefits and impact on brain development; bilingual education policy.*

| | | |
|---|---|---|
| 0101 | Min Wang<br>TuTh 11:00am - 12:15pm | Seats (Total: 50)<br>TWS 1310 |

**EDHD306** **Research Methods in Human Development**

*Addresses the scientific concepts and principles central to the study of human behavior and development. Students will learn about basic research methods in studying human behavior in developmental context and will participate in experiential activities, such as conducting observations and collecting self-report data. Major themes: goals of developmental research, fundamental research designs, types of measurement, elements of good scientific writing, and ethical issues in the study of human development.*

| | | |
|---|---|---|
| 0101 | Richard Prather<br>MW 2:00pm - 3:15pm | Seats (Total: 40)<br>EDU 2119 |
| 0201 | Alina Maki<br>TuTh 9:30am - 10:45am | Seats (Total: 40)<br>EDU 1121 |
| 0301 | Marieh Arnett<br>MW 9:30am - 10:45am | Seats (Total: 40)<br>EDU 1107 |

**EDHD314** **Reading in the Early Childhood Classroom**

*Prerequisite: EDHD210, EDHD220, and EDSP211. Corequisite: EDHD425; and corequisite: EDHD419 or EDSP420. Restriction: Must be enrolled in Professional Early Childhood/Early Childhood Special Education Program; and minimum cumulative GPA of 2.75.*

*Early childhood students introduced to current research/methods on teaching language arts. Focus on development of linguistic and cognitive processes in emergent literacy and beginning reading and writing. Application to models for the instruction and assessment of reading/writing in preschool-aged children. Also includes material on classroom-based interventions for young children at risk of reading failure due to learning difficulties. Includes Field Experiences.*

Restricted to major code 0822P.

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|---|---|---|
| 0101 | Donald Bolger<br>Th 1:00pm - 3:00pm<br>Contact instructor or department for details. | Seats (Total: 35)<br>EDU 1121 |

**EDHD319** **Selected Topics in Human Development**

*Selected topics in human development in relation to contemporary culture.*

**Contact department for information to register for this course.**

**EDHD320** **Human Development Through the Life Span**

*Central concepts related to parameters of human development, individual and social, which arise throughout the life span. Continuity and change within the developing individual.*

| | | |
|---|---|---|
| 0201 | Christina Edmonds<br>MW 9:30am - 10:45am | Seats (Total: 40)<br>EDU 1121 |
| 0301 | Olga Walker<br>Th 12:30pm - 1:45pm<br>Class time/details on ELMs | Seats (Total: 80)<br>SQH 1120<br>ONLINE |
| 0401 | Jennie Lee-Kim<br>Th 11:00am - 12:15pm<br>Class time/details on ELMs | Seats (Total: 38)<br>EDU 3315<br>ONLINE |
| 0601 | Elise Kaufman<br>Tu 12:30pm - 1:45pm<br>Class time/details on ELMs | Seats (Total: 38)<br>EDU 3315<br>ONLINE |
| 0701 | Megan Hurley<br>MW 12:30pm - 1:45pm | Seats (Total: 40)<br>ONLINE |

**EDHD322** **The Young Child as Mathematician**

*Prerequisite: EDSP423, EDHD431, and EDSP315; and track 1: Must have completed EDSP 430, EDSP 433; OR Track 2: Must have completed EDHD415, EDHD 424. Corequisite: EDHD323, EDSP321, EDSP417, EDHD441, EDHD442, EDHD443, and EDHD444. Restriction: Must be in the Professional Early Childhood/Early Childhood Special Education program; and senior standing or higher; and minimum cumulative GPA of 2.75.*

*Provides a theoretical and instructional framework for mathematics instruction in early childhood classrooms. Development of understanding of early childhood mathematics that emphasizes how and in what environment young children learn mathematics. Current thinking about both content and instructional strategies for mathematics curriculum, including identification and review of standards and expectations for learning outcomes for all children. Assessment strategies for evaluating all children will be addressed. Includes Phase 1 Field Experience.*

Restricted to major code 0822P.

| | | |
|---|---|---|
| 0101 | Jimena Cosso<br>W 2:00pm - 4:00pm<br>Contact instructor or department for details. | Seats (Total: 35)<br>EDU 2121 |

**EDHD323** **Children Study their World**

*Prerequisite: EDSP423, EDHD431, and EDSP315; and track 1: Must have completed EDSP430, EDSP433; or Track 2: Must have completed EDHD415, EDHD424. Corequisite: EDHD322, EDSP417, EDHD441, EDHD443, EDHD442, EDHD444, and EDSP321. Restriction: Must be in the Professional Early Childhood/Early Childhood Special Education program; and senior standing or higher; and minimum cumulative GPA of 2.75.*

*Provides theoretical and instructional framework for social studies instruction in inclusive early childhood classrooms. Course will reflect current thinking about content and instructional strategies for social studies curriculum; identification and review of standards/expectations for learning outcomes for all children; assessment strategies for evaluating of social studies objectives; use of data driven instruction to support all children; observation of children's understanding of their social world in field placements; opportunities to explore these understandings through interviews with children and the implementation of activities. Includes Phase 1 Field Experience.*

Restricted to major code 0822P.

| | | |
|---|---|---|
| 0101 | Amanda Schwartz | Seats (Total: 35) |
| | W 11:00am - 1:00pm<br>Contact instructor or department for details. | EDU 3315 |

**EDHD386** **Experiential Learning**

(Perm req)

*Restriction: Permission of EDUC-Human Development and Quantitative Methodology department; and junior standing or higher.*

**Contact department for information to register for this course.**

**EDHD390** **Career Paths and Internship Preparation in Human Development**

*Restriction: Must be in the Human Development major.*

*Prepares degree candidates in Human Development for career paths in the field including initial job seeking skills, knowledge necessary for entry into various professions and preparation for the program internship requirement*

| | | |
|---|---|---|
| 0101 | Olga Walker | Seats (Total: 15) |
| | Tu 2:00pm - 2:50pm<br>Class time/details on ELMs | EDU 1315<br>ONLINE |
| | *Restricted to students in the Human Development major.* | |

**EDHD402** **Social Development**

*Recommended: EDHD411.*

*Social Development. Critical concepts and ideas of the study of child and adolescent social development. Focus on changes in interpersonal relationships, emotions, achievement-related behavior and competence, and functioning within the broader social context.*

| | | |
|---|---|---|
| 0101 | Olga Walker<br>Tu 11:00am - 12:15pm<br>Class time/details on ELMs | Seats (Total: 40)<br>EDU 2119<br>ONLINE |
| 0201 | Michaela Brooks<br>TuTh 8:00am - 9:15am | Seats (Total: 38)<br>EDU 3315 |

**EDHD411** **Child Growth and Development**

*Theoretical approaches to and empirical studies of physical, psychological and social development from conception to puberty. Implications for home, school and community.*

| | | |
|---|---|---|
| 0201 | Christina Edmonds<br>MW 12:30pm - 1:45pm | Seats (Total: 40)<br>EDU 2119 |
| 0301 | Olga Walker<br>Tu 12:30pm - 1:45pm<br>Class time/details on ELMs | Seats (Total: 40)<br>EDU 2119<br>ONLINE |

**EDHD412** **Infant Development**

*Infant development across domains, including perceptual, motor, cognitive, language, social and emotional functioning from pre-natal through third year of life.*

| | | |
|---|---|---|
| 0301 | Lauren Trakhman<br>TuTh 2:00pm - 3:15pm | Seats (Total: 40)<br>ONLINE |

**EDHD413** **Adolescent Development**

*Adolescent development, including special problems encountered in contemporary culture. Observational component and individual case study.*

| | | |
|---|---|---|
| 0101 | Geetha Ramani<br>TuTh 11:00am - 12:15pm | Seats (Total: 40)<br>EDU 1121 |
| 0201 | Geetha Ramani<br>TuTh 9:30am - 10:45am | Seats (Total: 40)<br>EDU 2119 |

**EDHD414** **Development of the Scientific Mind Across the Lifespan**

*Recommended: EDHD320.*

*Study of the educational, cognitive, social, and cultural factors that underlie the development of the scientific mind across the lifespan.*

| | | |
|---|---|---|
| 0101 | John Robertson | Seats (Total: 25) |
| | TuTh 12:30pm - 1:45pm | SQH 1101 |

**EDHD425** **Language Development and Reading Acquisition**

*This course focuses on young children's language development and the relationship between language and reading acquisition. Students will learn: concepts central to language development; language achievements at different ages; concepts of emergent literacy; models of reading acquisition and skilled reading.*

| | | |
|---|---|---|
| 0101 | Min Wang | Seats (Total: 35) |
| | Tu 1:00pm - 3:45pm | EDU 1107 |
| | *Restricted to major code 0822P.* | |

**EDHD426** **Cognitive and Motivational Literacy Content**

*Students preparing for secondary teaching will learn about the cognitive and motivational aspects of literacy and learning from text for the content areas of literature, science, history and mathematics. Different evidenced-based literacy approaches appropriate for content learning are presented. Characteristics of learning environments that enable students to engage productively with diverse texts, disciplinary tasks, and technological resources in content areas are identified.*

| | | |
|---|---|---|
| 0101 | Lauren Trakhman | Seats (Total: 40) |
| | W 5:30pm - 8:15pm | ONLINE |

**EDHD441** **Data Driven Decision Making in EC/ECSE**

*Prerequisite: Minimum grade of C- in EDSP423, EDHD431, and EDSP315; and TRACK I: Must have completed EDSP430 and EDSP433 or TRACK 2: Must have completed EDHD415 and EDHD424. Corequisite: EDHD322, EDHD323, EDSP321, EDSP417, EDHD442, EDHD443, and EDHD444.*

*Students will be exposed to formative (e.g., classroom based, ongoing) and summative (e.g., standardized testing) assessments. Students will collect and analyze formative assessment data from their internship classrooms as the bases of planning and delivering instruction to meet the diverse needs of all learners. They will also analyze standardized assessment data to gain an understanding of measures used to determined cross-school and cross-teacher effectiveness. Includes Phase I field experience.*

Restricted to major code 0822P.

| | | |
|---|---|---|
| 0101 | Amanda Schwartz | Seats (Total: 35) |
| | **Meets October 7, 2024 - November 4, 2024** | |
| | M 10:00am - 12:00pm | TWS 1106 |
| | Contact instructor or department for details. | |

**EDHD442** **Interventions for Children with Behavioral Challenges**

*Prerequisite: Minimum grade of C- in EDSP423, EDHD431, and EDSP315; and TRACK I: Must have completed EDSP430 and EDSP 433; or TRACK 2: Must have completed EDHD415 and EDHD 424. Corequisite: EDSP321, EDSP417, EDHD322, EDHD323, EDHD441, EDHD443, and EDHD444.*

*Students will expand knowledge of and develop skills to address challenging behaviors in inclusive early childhood classrooms. Students examine the causes underlying challenging behaviors during the early childhood years, and identify appropriate resources and support services for working with families to develop a unified approach when responding to behavioral challenges. Includes Phase I field experience.*

Restricted to major code 0822P.

| | | |
|---|---|---|
| 0101 | Christy Tirrell-Corbin<br>**Meets September 9, 2024 - September 30, 2024**<br>M 10:00am - 12:00pm<br>Contact instructor or department for details. | Seats (Total: 35)<br><br>TWS 1106 |

**EDHD443** **Interventions for Children with Social and Communication Challenges**

*Prerequisite: Minimum grade of C- in EDSP423, EDHD431, and EDSP315; and TRACK I: Must have completed EDSP430 and EDSP 433; or TRACK 2: Must have completed EDHD415 and EDHD 424. Corequisite: EDHD322, EDSP321, EDSP417, EDHD323, EDHD441, EDHD442, and EDHD444.*

*Students will learn about the characteristics of children with autism spectrum disorder, pervasive developmental disorder, social communication disorder, and other related challenges and will be equipped to meet the needs of this group of children in the early childhood classroom. The utilization of Universal Design for Learning (UDL), Response to Intervention (RTI) and other early childhood special education approaches, as they apply to this specific group of children, will be addressed. Interventions designed to improve the functioning of children with autism spectrum disorders and related disorders will be reviewed. Includes Phase I field experience.*

Restricted to major code 0822P.

| | | |
|---|---|---|
| 0101 | Amanda Schwartz<br>**Meets November 11, 2024 - December 9, 2024**<br>M 10:00am - 12:00pm<br>Contact instructor or department for details. | Seats (Total: 35)<br><br>TWS 1106 |

**EDHD444** **Action Research in EC/ECSE**

*Prerequisite: Minimum grade of C- in EDSP423, EDHD431, and EDSP315; and track 1: Must have completed EDSP430 and EDSP433; OR Track 2: Must have completed EDHD415 and EDHD424. Corequisite: EDHD322, EDHD323, EDHD441, EDHD442, EDHD443, EDSP417, and EDSP321.*

*Students will become familiar with the EC/ECSE research process, literature and how teachers use action research to improve pedagogy and the experiences of children in classrooms or home-based contexts. Students will utilize this knowledge, as well as either a goal in an Individualized Education Plan (IEP) or Individualized Family Service Plan (IFSP) or School Improvement Plan (SIP), to develop an action research study commenced during the following semester. Includes Phase I field experience.*

Restricted to major code 0822P.

| | | |
|---|---|---|
| 0101 | Stephanie Varner<br>**Meets September 9, 2024 - December 4, 2024**<br>M 4:15pm - 6:15pm<br>Contact instructor or department for details. | Seats (Total: 35)<br><br><br>EDU 2119 |

**EDHD460** **Educational Psychology**

*Prerequisite: PSYC100; or permission of EDUC-Human Development and Quantitative Methodology department.*

*Application of psychology to learning processes and theories. Individual differences, measurement, motivation, emotions, intelligence, attitudes, problem solving, thinking and communicating in educational settings.*

| | | |
|---|---|---|
| 0101 | Suzanne Muir<br>MW 2:00pm - 3:15pm | Seats (Total: 40)<br>BPS 0283 |
| 0201 | Suzanne Muir<br>MW 3:30pm - 4:45pm | Seats (Total: 40)<br>BPS 0283 |

**EDHD474** **Human Development Honors Seminar**

*Restriction: Must be in the Human Development Honors program.*

*This seminar will have three overarching goals: (1) expose students to fundamental research questions in human development; (2) create professional development opportunities through invited speakers and (3) communicate an understanding of diversity, equity, and inclusion in all aspects of the research process.*

| | | |
|---|---|---|
| 0101 | Melanie Killen<br>Th 1:00pm - 3:45pm | Seats (Total: 20)<br>EDU 3233 |

**EDHD475H** **Human Development Honors Thesis Preparation Course**

(Perm req)

*Prerequisite: EDHD474. Restriction: Must be in the Human Development Honors program.*

*This is an individual instruction course with the thesis faculty advisor. In this course, students will work towards writing and completing their honors thesis, which will include a review of relevant literature, the rationale for the research project, research questions, methods for data collection, analysis plan, results, and a discussion of the findings. Faculty advisors will communicate the goals of the major surrounding issues of diversity, equity, and inclusion.*

**Contact department for information to register for this course.**

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**EDHD489** **Field Experiences in Human Development**

(Perm req)

*Planned field experience (internship or research-based activities) related to Human Development. Credit not to be granted for experiences accrued prior to registration.*

**Contact department for information to register for this course.**

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**EDHD498** **Special Research Problems in Human Development**

(Perm req)

*Exploration of current research problems in the study of human development. Available only to students who have definite plans for individual study of approved research problems. Credit according to extent of work.*

**Contact department for information to register for this course.**

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**EDHD629** **Developmental Science Seminar and Colloquium**

*A seminar and colloquium series featuring speakers from the department, the college, the university, and other universities and institutions from across the world that aims to cover issues pertaining to contemporary theory and research in human development, child development, and developmental science. The seminar format is a weekly colloquia series, along with discussion sessions related to a range of developmental science topics.*

| | | |
|---|---|---|
| 0101 | Richard Prather, Patricia Alexander<br>**Meets August 26, 2024 - December 9, 2024**<br>W 12:30pm - 2:00pm | Seats (Total: 20)<br><br>EDU 1107 |

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**EDHD690** **Theoretical Foundations of Human Development**

*Theoretical foundations in the field of human development with a focus on connections between the major theoretical paradigms in the literature and current research in developmental science.*

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|---|---|---|
| 0101 | Lucas Butler<br>Tu 1:00pm - 3:45pm | Seats (Total: 20)<br>EDU 2102 |

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**EDHD718** **Apprenticeship in College Teaching; Apprenticeship in College Teaching**

(Perm req)

*For graduate students teaching autonomously for the first, second, or third tiem at the University of Maryland, College Park; not intended for teaching assistants. This course provides graduate student teachers with a set of structured experiences that foster professional growth and development in the role of college instructor. Includes seminars on the scholarship of college teaching and principles of optimal college classroom environments, peer and faculty in-class observations of teaching, and guided reflective analysis of experience in the classroom.*

| | | |
|---|---|---|
| 0101 | Jennie Lee-Kim<br>F 1:00pm - 3:30pm | Seats (Total: 10)<br>EDU 2101 |

**EDHD750** **Culture, Context, and Development**

*This course will cover theory and research on cultural and contextual influences on social development.*

| | | |
|---|---|---|
| 0101 | Natasha Cabrera<br>Th 1:00pm - 3:45pm | Seats (Total: 20)<br>EDU 2102 |

**EDHD780** **Research Methods in Human Development**

*Prerequisite: EDMS651; or permission of EDUC-Human Development and Quantitative Methodology department.*

*Research methodology for studying human development: research design, hypothesis formulation, instrument development, methodological and statistical approaches, survey of methodologies.*

| | | |
|---|---|---|
| 0101 | Richard Prather<br>M 9:30am - 12:15pm | Seats (Total: 20)<br>EDU 2102 |

**EDHD789** **Internship in Human Development**

(Perm req)

*Internship experience in one or more human service agencies in the community.*

**Contact department for information to register for this course.**

**EDHD798** **Laboratory in Human Development**

(Perm req)

*Independent research supervised by an instructor in a research setting.*

Limited to human development majors.

**Contact department for information to register for this course.**

**EDHD799** **Master's Thesis Research**

(Perm req)

*Registration required to the extent of six hours for master's thesis.*

Limited to human development majors.

**Contact department for information to register for this course.**

**EDHD888** **Apprenticeship in Human Development Research**

(Perm req)

*Apprenticeship in Human Development research.*

**Contact department for information to register for this course.**

**EDHD889** **Practicum in Human Development**

(Perm req)

*Field experience in applied human development at a professional level of competence in a particular role with appropriate supervision.*

**Contact department for information to register for this course.**

**EDHD898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**EDHD899** **Doctoral Dissertation Research**

(Perm req)

*Registration required to 12-18 hours for a Ph.D. dissertation.*

Limited to human development majors.

**Contact department for information to register for this course.**

# EDHI Education Leadership, Higher Ed and International Ed Fall 2024

**EDHI489** **Field Experiences in Education**

(Perm req)

*Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.*

**Contact department for information to register for this course.**

**EDHI498** **Special Problems in Education**

(Perm req)

*Available only to students who have definite plans for individual study of approved problems.*

**Contact department for information to register for this course.**

**EDHI605** **Comparative Education**

*Credit only granted for: EDHI605, EDPL605, or EDPS605. Formerly: EDPL605.*

*Analyzes and compares leading issues in education in various countries of the world, particularly as they relate to crucial problems in American education.*

| | | |
|---|---|---|
| 0101 | Zeena Zakharia<br>Th 4:15pm - 7:00pm | Seats (Total: 20)<br>EDU 3315 |

**EDHI606** **Political Economy of Education in a Global Context**

*Credit only granted for: EDHI606, EDPL606, or EDPS606. Formerly: EDPL606.*

*Examination of alternative economics perspectives and their implications for education policy and practice internationally, from local to global levels. The connection of education to issues of development, inequality, poverty, gender, and race will be discussed.*

| | | |
|---|---|---|
| 0101 | Steven Klees<br>Tu 4:15pm - 7:00pm<br>Class time/details on ELMs | Seats (Total: 20)<br>EDU 3233<br>ONLINE |

**EDHI650** **Professional Seminar in Higher and Adult Education**

*Credit only granted for: EDHI650, EDPL650, or EDPS650. Formerly: EDPL650.*

*Introduction to higher and adult education as a field of study. Origins, current dimensions and problems, and emerging issues. Field trips to state and national capitols, and involvement in professional conferences.*

| | | |
|---|---|---|
| 0101 | Sharon Fries-Britt<br>Th 4:15pm - 7:00pm<br>Class time/details on ELMs | Seats (Total: 20)<br>EDU 2102<br>ONLINE |

**EDHI652** **Higher Education in American Society**

*Credit only granted for: EDHI652, EDPL652, or EDPS652. Formerly: EDPL652.*

*Examines the concepts of academic freedom, corporate autonomy and institutional accountability with emphasis on twentieth century relationships between higher education and government in the United States.*

| | | |
|---|---|---|
| 0101 | Ashley Ogwo<br>W 4:15pm - 7:00pm<br>Class time/details on ELMs | Seats (Total: 15)<br>EDU 3233<br>ONLINE |

**EDHI665** **College Access and Choice**

*Credit only granted for: EDHI665 or EDHI788L. Formerly: EDHI788L.*

*Examines the college-going process, how and why some students successfully navigate it, and what policies and programs can help students from disadvantaged or underrepresented backgrounds overcome barriers to college access and entry.*

| | | |
|---|---|---|
| 0101 | Awilda Rodriguez<br>Tu 4:15pm - 7:00pm | Seats (Total: 15)<br>LEF 1201 |

**EDHI672** **Modes of Inquiry in Education Research**

*Restriction: Must be in a program in the Counseling, Higher Education, or Special Education department; or permission of the instructor. Credit only granted for: EDHI672 or EDPS672.*

*Introduction to modes of inquiry appropriate to research on issues and problems in education. Examination of qualitative, quantitative and mixed research methods and designs with a focus on related standards of quality.*

| | | |
|---|---|---|
| 0101 | Steven Klees<br>M 7:00pm - 9:45pm<br>Class time/details on ELMs | Seats (Total: 20)<br>EDU 3233<br>ONLINE |

**EDHI679** **Master's Seminar**

*Directed study for master's degree students writing seminar papers.*

**Contact department for information to register for this course.**

**EDHI680** **Gender, Development, and Education**

*Credit only granted for: EDHI674, EDHI680 or EDHI788K. Formerly: EDHI788K.*

*Focusing on gender as an analytical frame and a discrete variable, a comprehensive view of the relationship between gender and education in the context of national development is presented. It identifies the conditions of men and women's education and policy efforts to promote equity and social transformation.*

| | | |
|---|---|---|
| 0101 | Zeena Zakharia<br>W 4:15pm - 7:00pm | Seats (Total: 20)<br>EDU 3315 |

**EDHI689** **Practicum In Educational Administration and Supervision**

(Perm req)

*Promotes skill development in managerial, leadership and supervisory areas. Practicum is based on results of diagnostic instruments and an individual professional development plan.*

**Contact department for information to register for this course.**

**EDHI750** **International Higher Education**

*Credit only granted for: EDHI750, EDPL750, or EDPS750. Formerly: EDPL750.*

*Comparison of higher education systems in several countries, and of the problems and issues in higher education faced by these countries.*

| | | |
|---|---|---|
| 0101 | Jing Lin<br>M 4:15pm - 7:00pm | Seats (Total: 20)<br>EDU 3315 |

**EDHI789** **Doctoral Practicum in Administration and Supervision**

*Experiential activities designed to enhance student skills. Based on Individual Professional Development Plan for each student.*

**Contact department for information to register for this course.**

**EDHI798** **Special Problems in Education**

(Perm req)

*Master's, AGS, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.*

**Contact department for information to register for this course.**

**EDHI799** **Master's Thesis Research**

**Contact department for information to register for this course.**

**EDHI888** **Apprenticeship in Education**

*Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.*

| | | |
|---|---|---|
| 0101 | Sharon Fries-Britt<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2701 | Marvin Titus<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2801 | Jeongeun Kim<br>Contact instructor or department for details. | Seats (Total: 5) |
| 3201 | Awilda Rodriguez<br>Contact instructor or department for details. | Seats (Total: 5) |

**EDHI889** **Internship in Education**

(Perm req)

*Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.*

**Contact department for information to register for this course.**

**EDHI898** **Pre-Candidacy Research**

**Contact department for information to register for this course.**

**EDHI899** **Doctoral Dissertation Research**

(Perm req)

*Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. Dissertation.*

**Contact department for information to register for this course.**

# EDMS Measurement, Statistics, and Evaluation — Fall 2024

**EDMS451** **Introduction to Educational Statistics**

*Restriction: Sophomore standing or higher.*

*Introduction to statistical reasoning; location and dispersion measures; computer applications; regression and correlation; formation of hypotheses tests; t-test; one-way analysis of variance; analysis of contingency tables.*

| | | |
|---|---|---|
| 0101 | Tracy Sweet | Seats (Total: 114) |
| | MW 2:00pm - 3:15pm | CHE 2110 |

**EDMS623** **Applied Measurement: Issues and Practices**

*Prerequisite: EDMS410. And EDMS645; or students who have taken courses with comparable content may contact the department.*

*Measurement theory and its application at an intermediate level; test development, validation and interpretation; issues and recent developments in measurement.*

| | | |
|---|---|---|
| 0101 | Hong Jiao | Seats (Total: 25) |
| | Th 4:15pm - 7:00pm | EDU 2119 |

**EDMS645** **Quantitative Research Methods I**

*Research design and statistical applications in educational research: data representation; descriptive statistics; estimation and hypothesis testing. Application of statistical computer packages is emphasized.*

| | | |
|---|---|---|
| 0101 | Weimeng Wang | Seats (Total: 30) |
| | W 4:15pm - 7:00pm | JMZ 2123 |

**EDMS646** **General Linear Models I**

*Prerequisite: EDMS645; or an equivalent introductory statistics course.*

*A first post-introductory inferential statistics course, with emphasis on analysis of variance procedures and designs from within the general linear modeling framework. Assignments include student analysis of education and related data; application of statistical software packages is emphasized.*

| | | |
|---|---|---|
| 0101 | Tessa Johnson | Seats (Total: 30) |
| | Tu 4:15pm - 7:00pm | EDU 1107 |

**EDMS651** **General Linear Models II**

*Prerequisite: EDMS646; or students who have taken courses with comparable content may contact the department.*

*Multiple regression and correlation analysis; trend analysis; hierarchical and stepwise procedures; logistic regression; software for regression analysis.*

| | | |
|---|---|---|
| 0101 | Ji Seung Yang | Seats (Total: 30) |
| | M 4:15pm - 7:00pm | EDU 1107 |

**EDMS655** **Introduction to Multilevel Modeling**

*Prerequisite: EDMS651; or students who have taken courses with comparable content may contact the department.*

*Introduction to multilevel models and methodology as strategies for modeling change and organizational effects.*

| | | |
|---|---|---|
| 0101 | Tracy Sweet | Seats (Total: 20) |
| | W 4:15pm - 7:00pm | EDU 1107 |

**EDMS657** **Exploratory Latent and Composite Variable Methods**

*Prerequisite: EDMS651.*

*Development of models for exploratory factor analysis and their practical applications. Additional topics will draw from latent class analysis, cluster analysis, mixture models, canonical correlation, multidimensional scaling, and configural frequency analysis.*

| | | |
|---|---|---|
| 0101 | Jeffrey Harring | Seats (Total: 30) |
| | Tu 4:15pm - 7:00pm | EDU 2119 |

**EDMS769C** **Special Topics in Applied Statistics in Education; Causal Mediation Analysis**

*Designed primarily for students majoring or minoring in measurement, statistics or evaluation.*

| | | |
|---|---|---|
| 0101 | Peter Steiner | Seats (Total: 20) |
| | M 4:15pm - 7:00pm | EDU 1121 |

**EDMS779M** **Seminar in Applied Statistics; Mathematical Foundations and Simulation Techniques**

*Enrollment restricted to students with a major or minor in measurement, statistics or evaluation. Seminar topics will be chosen by individual student interest.*

| | | |
|---|---|---|
| 0101 | Jeffrey Harring | Seats (Total: 20) |
| | Th 4:15pm - 7:00pm | EDU 3236 |

**EDMS798** **Special Problems in Education**

(Perm req)

*Master's, EDMS majors, or doctoral candidates who desire to pursue special research problems under the direction of their advisors may register for credit under this number.*

Prerequisite: permission of department.

**Contact department for information to register for this course.**

**EDMS799** **Master's Thesis Research**

*Registration required to the extent of 6 credits.*

**Contact department for information to register for this course.**

**EDMS889** **Internship in Measurement and Statistics**

*Provides internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.*

**Contact department for information to register for this course.**

**EDMS898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**EDMS899** **Doctoral Dissertation Research**

(Perm req)

*Registration required to the extent of 12 credits.*

**Contact department for information to register for this course.**

# EDSP Education, Special Fall 2024

**EDSP210** **Foundations of Special Education: Inclusive Practices**

*Restriction: Sophomore standing or lower. Credit only granted for: EDSP210, EDSP211 or EDSP470.*

*Students examine historical foundations of special education, including legislation; review components necessary for effective service delivery; and develop an understanding of the role of collaboration and consultation with parents, school personnel and other professionals.*

| | | |
|---|---|---|
| 0101 | Cherise Hunter | Seats (Total: 20) |
| | MW 2:00pm - 3:15pm | EDU 2102 |

**EDSP211** **Introduction to Special Education**

(Perm req)

*Restriction: Sophomore standing or lower; and permission of EDUC-Counseling, Higher Education and Special Education department. Credit only granted for: EDSP210, EDSP211 or EDSP470.*

*Students examine historical foundations of special education, including legislation; review components necessary for effective service delivery; and develop an understanding of the role of collaboration and consultation with parents, school personnel and other professionals.*

| | | |
|---|---|---|
| 0101 | Rebecca Horrace<br>M 1:00pm - 3:45pm | Seats (Total: 22)<br>EDU 3233 |

**EDSP220** **Disability in Community: Access, Accommodation, and Adaptation**

*Examines the concept of disability in a variety of community settings. Drawing on classic and contemporary readings in psychology, sociology and special education, the course will couple conceptual and historical understanding of disability with first-hand service-learning experiences in the community. Students will develop a plan in several phases that encompasses principles of Universal Design for Living/Learning (UDL) to study and participate in community-based activities.*

| | | |
|---|---|---|
| 0101 | Meredith Gramlich<br>TuTh 2:00pm - 3:15pm | Seats (Total: 20)<br>SKN 1115 |
| FC01 | Katryna Andrusik<br>Tu 4:30pm - 5:45pm<br>Class time/details on ELMs<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 20)<br>JMZ 0125<br>ONLINE |

**EDSP311** **Peer Mentor Training and Certification**

*Opportunity for peer mentor training and field experience for national CRLA certification (crla.net) to become a certified peer mentor by learning about and providing inclusive support for students with intellectual disabilities (ID) in the inclusive post-secondary TerpsEXCEED program at UMD. Students will develop an understanding of disability inclusion and ways to support students and build friendships through a mentoring relationship. Direct application of content instruction with weekly field experience allows students to maximize peer mentoring scholarship-to-practice understanding and application. The course trains peer mentors who provide same-age academic, social, and career mentoring supports for TerpsEXCEED students with intellectual disabilities on campus.*

| | | |
|---|---|---|
| 0101 | Meredith Gramlich<br>TuTh 12:30pm - 1:45pm | Seats (Total: 75)<br>ASY 2309 |

**EDSP321** **The Young Child As Scientist**

*Prerequisite: EDSP423, EDHD431, and EDSP315; and track 1: Must have completed EDSP430 and EDSP433; OR Track 2: Must have completed EDHD415 and EDHD424. Corequisite: EDHD322, EDHD323, EDSP417, EDHD441, EDHD442, EDHD443, and EDHD444.*

*A theoretical and pedagogical framework for evidence-based inclusive science instruction in inclusive early childhood classrooms. Examination of principles of inquiry-based science learning and develop strategies for helping children acquire fundamental problem-solving skills that may be applied to understanding a wide array of science content. Assessment strategies for evaluating the achievement of science objectives, and the achievement for all children will be addressed. Includes field experience.*

| | | |
|---|---|---|
| 0101 | Jennifer Amilivia<br>W 8:30am - 10:30am | Seats (Total: 32)<br>EDU 3315 |

**EDSP376** **Fundamentals of Sign Language**

*Credit only granted for: EDSP376 or CHSE376. Formerly: EDSP376.*

*Receptive and expressive skills in American Sign Language. Examination of the causes of deafness, characteristics of deaf education, and aspects of the culture of the deaf community.*

| | | |
|---|---|---|
| 0101 | Michael Dunham<br>MW 5:00pm - 6:15pm | Seats (Total: 25)<br>JMP 1202 |
| 0201 | Colleen McGilpin<br>MW 11:00am - 12:15pm | Seats (Total: 15)<br>ONLINE |
| 0301 | Elizabeth Martinez<br>MW 6:15pm - 7:30pm | Seats (Total: 25)<br>ONLINE |
| 0401 | Chanai Brewster<br>TuTh 6:30pm - 7:45pm | Seats (Total: 15)<br>ONLINE |

**EDSP400** **Instruction of Students with Severe Disabilities I**

*Restriction: Must be in Special Education program. Jointly offered with EDSP602. Credit only granted for: EDSP400 or EDSP602.*

*Functional assessment procedures and instructional methods for students with severe disabilities.*

| | | |
|---|---|---|
| 0101 | Seyma Intepe Tingir<br>W 1:15pm - 4:00pm | Seats (Total: 40)<br>ATL 1114 |

**EDSP401** **Teaching Students with Disabilities in Elementary Classrooms**

(Perm req)

*Restriction: Permission of EDUC-Special Education department. Credit only granted for: EDSP401 or EDSP499F. Formerly: EDSP499F.*

*This course is designed for elementary education majors to prepare for teaching students with disabilities in elementary classrooms. The course examines the legal requirements for general education teachers in the public schools including best practices for participating in the Individual Education Program (IEP) team process, and understanding Response to Intervention (RTI) as a approach to the early identification and support of students with learning and behavior needs. Information is provided on the characteristics of students who have been identified as having high incidence disabilities (e.g., learning disabilities, attention deficit hyperactivity disorder, speech and language delays, emotional or behavioral disorders, and other health impairments). The course then provides information on universal design (UDL) principles for learning, instructional suggestions to include students with disabilities in the general classroom, co-teaching and methods for integrating technology and assistive technology to benefit all students.*

| | | | |
|---|---|---|---|
| 0101 | Melody Mann, Jennifer McCatharn<br>M 5:00pm - 6:15pm<br>W 11:00am - 12:15pm | Seats (Total: 30)<br>TWS 1310<br>ONLINE | <br><br>Discussion |
| 0102 | Jennifer McCatharn, Melody Mann<br>M 5:00pm - 6:15pm<br>Tu 11:00am - 12:15pm | Seats (Total: 30)<br>TWS 1310<br>VMH 1207 | <br><br>Discussion |

**EDSP404** **Methods of Teaching Autistic Students**

(Perm req)

*Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Jointly offered with: EDSP604. Credit only granted for: EDSP404 or EDSP604.*

*Characteristics of children and youth diagnosed with an autism spectrum disorder (ASD), assessment, and evidence-based instructional methods in teaching autistic students who come from diverse ethnic, cultural, and socio-economic backgrounds.*

| | | | |
|---|---|---|---|
| 0101 | Gulnoza Yakubova<br>W 4:15pm - 7:00pm | Seats (Total: 40)<br>EDU 1121 | |

**EDSP411** **Foundations of Technology Integration for Curriculum Access**

(Perm req)

*Prerequisite: EDSP210 or EDSP470. Restriction: Must be in Special Education program.*

*Addresses ways to integrate technology and Assistive Technology (AT) into content area instruction, use Accessible Educational Materials (AEM), and the Universal Design for Learning (UDL) framework to evaluate, analyze, and develop responsive instruction.*

| | | | |
|---|---|---|---|
| 0101 | Katryna Andrusik<br>Th 1:15pm - 4:00pm | Seats (Total: 24)<br>EDU 3315 | |

**EDSP413** **Principles and Practices in Positive Behavior Interventions and Classroom Supports**

*Restriction: Must be in Special Education program. Jointly offered with: EDSP613. Credit only granted for: EDSP413 or EDSP613.*

*Use of positive behavior supports to promote both classwide and individual student behavior skills through function-based behavior assessment, establishing classroom expectations, and examining common misbehaviors that often result in learning loss.*

| | | | |
|---|---|---|---|
| 0101 | Kelli Cummings<br>Tu 4:15pm - 7:00pm | Seats (Total: 22)<br>EDU 1121 | |

**EDSP417** **Reading Diagnosis and Assessment**

*Prerequisite: EDSP423, EDHD431, and EDSP315; and track 1: Must have completed EDSP430 and EDSP433; OR Track 2: Must have completed EDHD415 and EDHD424. Corequisite: EDHD322, EDHD323, EDSP321, EDHD441, EDHD442, EDHD443, and EDHD444.*

*Reading Diagnosis and Assessment prepares teacher candidates to assess children in general and special early childhood educations settings in the areas of reading and writing in order to plan for instruction. The course will focus on diagnostic, screening, progress monitoring, and outcome assessments in early and beginning literacy. The course is designed to provide participants with the knowledge and skills necessary to collect and use a wide range of assessment data in general education and special education settings. Includes field experience.*

| | | |
|---|---|---|
| 0101 | Monerah Al-Dubayan | Seats (Total: 32) |
| | M 1:00pm - 3:45pm | EDU 3315 |

**EDSP420** **Child Development, Birth to Three Years**

*Prerequisite: EDHD210, EDHD220, and EDSP211. Corequisite: EDHD314 and EDHD425. Cross-listed with: EDHD434. Credit only granted for: EDHD419A, EDSP420 or EDHD434. Formerly: EDHD419A.*

*Designed to provide students with an understanding of child development theory and research, as well as knowledge about typical and atypical development of children from birth to three years of age. The course emphasizes learning for children with and without disabilities, and for children who are at risk due to poverty and other environmental factors. The course will introduce how children develop and the challenges they face within the domains of physical, cognitive, language, social, and emotional development, with particular attention paid to the impact of risk factors on development. Students will become familiar with delays and differences in development that may occur as the result of disability. Finally, students will learn the effects of cultural and linguistic differences on growth and development. Information about theory and research in child development for children with and without disabilities will be enhanced through a series of observational experiences, which will build upon concepts addressed during class. Includes field experiences.*

| | | |
|---|---|---|
| 0101 | Jennifer Amilivia | Seats (Total: 36) |
| | W 1:00pm - 4:00pm | EDU 3315 |

**EDSP425** **Pre-Internship I**

*Corequisite: EDSP451 and EDSP400. Restriction: Must be in the Special Education major.*

*This required EDSP field placement is a 3-hour per week seminar and field placement that meets across 15 weeks. Opportunities are provided to observe and participate in instructional experiences under the guidance of an assigned Host Teacher (HT) in a four-week experience in a high incidence placement AND a four-week experience in a low incidence (LI) placement. The purpose is to provide each special education teacher candidate (TC) with practical experience to complete field-based requirements and begin to meet the CEC Initial Preparation Standards (2012). Furthermore, since EDSP 425 is the first internship experience in the Special Education Program in the College of Education at University of Maryland, teacher candidates will become familiar with the Special Education Program, College of Education, Maryland State Department of Education (MSDE), Counsel for Accreditation of Educator Preparation (CAEP), and Council for Exceptional Children (CEC) expectations and requirements for graduation and teacher licensure.*

| | | |
|---|---|---|
| 0101 | Dawn Martin<br>Tu 9:00am - 12:00pm | Seats (Total: 30)<br>SQH 1117 |

**EDSP443** **Language and Literacy Acquisition in Children with Disabilities**

*Restriction: Must be in Special Education program. Additional information: This course is the first of four reading courses required by the Maryland State Department of Education for teacher certification in Special Education.*

*Language and literacy acquisition and characteristics of typical and atypical language development in supporting students with reading and writing disabilities.*

| | | |
|---|---|---|
| 0101 | Anne Karabell<br>W 4:15pm - 7:15pm | Seats (Total: 40)<br>TWS 0201 |

**EDSP451** **Curriculum and Instruction: Elementary/Middle Special Education**

*Restriction: Must be in Special Education program. Jointly offered with EDSP652. Credit only granted for: EDSP451 or EDSP652.*

*Methods for instruction of students with disabilities in the general education curriculum. Collaboration with other professionals is included.*

| | | |
|---|---|---|
| 0101 | Alicia Woolf<br>M 1:00pm - 4:00pm<br>Class time/details on ELMs | Seats (Total: 40)<br>EDU 1107<br>ONLINE |

**EDSP452** **Internship I: Elementary/Middle Special Education**

*Restriction: Must be in Special Education program. Jointly offered with EDSP692. Credit only granted for: EDSP452 or EDSP692.*

*Field experience in elementary/middle school special education.*

| | | | |
|---|---|---|---|
| 0101 | Stacey Williams<br>F 10:00am - 12:00pm<br>WTh 8:00am - 3:00pm | Seats (Total: 20)<br>EDU 2101<br>ONLINE | <br><br>Lab |

**EDSP470** **Introduction to Special Education**

*Restriction: Must not have completed EDSP210. Credit only granted for: EDSP210, EDSP211 or EDSP470.*

*Designed to give an understanding of the needs of all types of exceptional children.*

| | | |
|---|---|---|
| 0101 | Cameron Butler<br>TuTh 5:00pm - 6:15pm | Seats (Total: 42)<br>ASY 3203 |
| 0301 | Stuti Gupta<br>M 1:00pm - 3:45pm | Seats (Total: 40)<br>KEY 0116 |

**EDSP476** **Communicating with Sign Language**

(Perm req)

*Prerequisite: EDSP376 or CHSE376. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Credit only granted for: EDSP476 or CHSE476. Formerly: EDSP476.*

*Intermediate level receptive/expressive skills in American Sign Language. Aspects of the culture, history, and research perspectives of the deaf community.*

| | | |
|---|---|---|
| 0101 | Michael Dunham<br>MW 6:15pm - 7:30pm | Seats (Total: 20)<br>JMP 1202 |

**EDSP484** **Reading and Writing Instruction in Special Education II**

*Prerequisite: EDSP416. Restriction: Must be in Special Education program. Jointly offered with EDSP684. Credit only granted for: EDSP484 or EDSP684.*

*Focus on the development of reading and writing programs for students in special education. Builds on foundations established in EDSP416.*

| | | |
|---|---|---|
| 0101 | Katryna Andrusik<br>Tu 1:00pm - 3:45pm | Seats (Total: 40)<br>EDU 1121 |

**EDSP489** **Field Experiences in Special Education**

*Planned field experience in education-related activities. Credit not to be granted for experiences accrued prior to registration.*

| | | |
|---|---|---|
| 2901 | Elizabeth Martinez<br>Contact instructor or department for details. | Seats (Total: 2) |
| 3301 | Sehrish Shikarpurya<br>Contact instructor or department for details. | Seats (Total: 2) |

**EDSP490** **Teacher Candidate Research Seminar in Special Education**

*Restriction: Must be in Special Education program.*

*Study of current issues and research concerning the education of students in special education.*

| | | |
|---|---|---|
| 0101 | Seyma Intepe Tingir<br>M 1:15pm - 4:00pm | Seats (Total: 20)<br>EDU 1315 |

**EDSP498** **Special Problems in Special Education**

(Perm req)

*Available only to education majors who have definite plans for individual study of approved problems. Credit according to extent of work.*

Special education majors only.

**Contact department for information to register for this course.**

**EDSP499** **Workshops, Clinics, and Institutes in Special Education**

*The following type of educational enterprise may be scheduled under this course heading: workshops conducted by the special education department (or developed cooperatively with other departments, colleges and universities) and not otherwise covered in the present course listing. Laboratories, and special education centers; institutes developed around specific topics or problems and intended for designated groups such as school superintendents, principals and supervisors.*

| | | |
|---|---|---|
| 0901 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |

**EDSP602** **Instruction of Students with Severe Disabilities I**

*Restriction: Must be in Special Education (Master's) program. Credit only granted for: EDSP400 or EDSP602.*

*Functional assessment procedures and instructional methods for students with severe disabilities.*

| | | |
|---|---|---|
| 0101 | Seyma Intepe Tingir<br>W 1:15pm - 4:00pm | Seats (Total: 40)<br>ATL 1114 |

| | | |
|---|---|---|
| PUR1 | Heather Stormont | Seats (Total: 25) |
| | **Meets October 18, 2024 - December 7, 2024** | |
| | F 5:00pm - 8:15pm | ONLINE |
| | Sa 9:00am - 11:45am | ONLINE |
| | Sa 12:30pm - 3:00pm | ONLINE |
| | *Must be in Special Education: Autism Online (M.Ed.). Golden ID students are not eligible for this section.* | |

**EDSP604** **Methods of Teaching Autistic Students**

(Perm req)

*Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Jointly offered with: EDSP404. Credit only granted for: EDSP404 or EDSP604.*

*Characteristics of children and youth diagnosed with an autism spectrum disorder (ASD), assessment, and evidence-based instructional methods in teaching autistic students who come from diverse ethnic, cultural, and socio-economic backgrounds.*

| | | |
|---|---|---|
| 0101 | Gulnoza Yakubova | Seats (Total: 40) |
| | W 4:15pm - 7:00pm | EDU 1121 |

**EDSP613** **Principles and Practices in Positive Behavior interventions and Classroom Supports**

*Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program; or permission of instructor. Jointly offered with: EDSP413. Credit only granted for: EDSP413 or EDSP613.*

*Use of positive behavior supports to promote both classwide and individual student behavior skills through function-based behavior assessment, establishing classroom expectations, and examining common misbehaviors that often result in learning loss.*

| | | |
|---|---|---|
| 0101 | Kelli Cummings | Seats (Total: 22) |
| | Tu 4:15pm - 7:00pm | EDU 1121 |

**EDSP623** **Challenges and Issues in Behavioral and Learning Disorders**

*Prerequisite: EDSP470. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.*

*Development and outcomes for students with behavioral and learning disorders for inclusive schools, discipline, professional development and ethics.*

| | | |
|---|---|---|
| PUB1 | Carolyn Fink | Seats (Total: 25) |
| | **Meets October 18, 2024 - December 7, 2024** | |
| | F 5:00pm - 8:15pm | ONLINE |
| | Sa 9:00am - 11:45am | ONLINE |
| | Sa 12:30pm - 3:00pm | ONLINE |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Special Education (Ed.D), Shady Grove to register. Golden ID students are not eligible for this section.* | |

**EDSP625** **Evidence Based Practices for Individuals with Significant Disabilities**

(Perm req)

*Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.*

*Examine and apply empirical research aligned to current trends and areas of investigation in the field of students with significant support needs.*

| | | |
|---|---|---|
| 0101 | Seyma Intepe Tingir | Seats (Total: 20) |
| | Tu 4:15pm - 7:00pm | EDU 2101 |
| | Class time/details on ELMs | ONLINE |

**EDSP632** **Embracing Diversity: Teaching Students with Disabilities and Gifted Learners in Secondary**

*Prerequisite: Permission of instructor. Restriction: Permission of EDUC-Special Education department. Credit only granted for: EDSP609 or EDSP632. Formerly: EDSP609.*

*Designed for secondary education majors to prepare for teaching students with disabilities in secondary classrooms. Examines the legal requirements for general education teachers in the public schools including best practices for participating in the Individual Education Program (IEP) team process, and understanding Response to Intervention (RTI) as a approach to the early identification and support of students with learning and behavior needs. Information is provided on the characteristics of students who have been identified as having high incidence disabilities (e.g., learning disabilities, attention deficit hyperactivity disorder, speech and language delays, emotional or behavioral disorders, and other health impairments). Information is also provided on the characteristics of students who are considered gifted and/or talented, as well as instructional methods for differentiating instruction to meet their needs. Also provides information on universal design (UDL) principles for learning, instructional suggestions to include students with disabilities in the general classroom, co-teaching, and methods for integrating technology and assistive technology to benefit all students.*

**Contact department for information to register for this course.**

**EDSP652** **Curriculum and Instruction: Elementary Special Education**

*Jointly offered with EDSP451. Credit only granted for: EDSP451 or EDSP6 52.*

*Methods for instruction of students with disabilities in the general education curriculum. Collaboration with other professionals is included.*

For EDSP majors only.

| | | |
|---|---|---|
| 0101 | Alicia Woolf | Seats (Total: 40) |
| | M 1:00pm - 4:00pm | EDU 1107 |
| | Class time/details on ELMs | ONLINE |
| PUA1 | Kelly Piantedosi | Seats (Total: 25) |
| | **Meets August 26, 2024 - December 11, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Must be in the General Education Teachers in Inclusive Classrooms program. Golden ID students are not eligible for this section.* | |
| PUA2 | Kelly Piantedosi | Seats (Total: 25) |
| | **Meets August 26, 2024 - December 11, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Must be in the General Education Teachers in Inclusive Classrooms program. Golden ID students are not eligible for this section.* | |
| PUA3 | Kelly Piantedosi | Seats (Total: 25) |
| | **Meets August 26, 2024 - December 11, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Must be in the General Education Teachers in Inclusive Classrooms program. Golden ID students are not eligible for this section.* | |

**EDSP670** **Single Case Research Designs in Education**

*Prerequisite: EDSP600. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.*

*Design, application, procedures, and analysis of single case research designs in special education to effectively evaluate instructional decisions.*

| | | |
|---|---|---|
| PUD1 | Gulnoza Yakubova | Seats (Total: 5) |
| | **Meets September 6, 2024 - October 5, 2024** | |
| | F 5:00pm - 8:15pm | ONLINE |
| | Sa 9:00am - 11:45am | ONLINE |
| | Sa 12:30pm - 3:00pm | ONLINE |
| | *Must be in Special Education (M.Ed.), Early Childhood Ages Birth-Age 5 to register. Golden ID students are not eligible for this section.* | |

| | | |
|---|---|---|
| PUE1 | Gulnoza Yakubova | Seats (Total: 5) |
| | **Meets August 26, 2024 - December 11, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Special Education (M.Ed.), Autism Spectrum Disorders and related Developmental Delays and Disabilities to register. Golden ID students are not eligible for this section.* | |
| PUR1 | Gulnoza Yakubova | Seats (Total: 40) |
| | **Meets September 6, 2024 - October 5, 2024** | |
| | F 5:00pm - 8:15pm<br>Sa 9:00am - 11:45am<br>Sa 12:30pm - 3:00pm | ONLINE<br>ONLINE<br>ONLINE |
| | *Must be in Special Education: Autism Online (M.Ed.). Golden ID students are not eligible for this section.* | |

**EDSP671** **Qualitative Methodologies in Special Education**

*Prerequisite: EDSP600. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department.*

*Design and evaluation of qualitative research in special education across disabilities and ages.*

| | | |
|---|---|---|
| 0101 | Sehrish Shikarpurya | Seats (Total: 20) |
| | Th 4:30pm - 7:30pm<br>Class time/details on ELMs | SQH 1103<br>ONLINE |

**EDSP678E** **Seminar in Special Education; Leading Instructional Improvement in Special Education**

| | | |
|---|---|---|
| PZC1 | Lawrence Leak | Seats (Total: 20) |
| | **Meets September 6, 2024 - October 10, 2024** | |
| | F 6:30pm - 9:30pm<br>Sa 9:00am - 4:30pm | Location: TBA<br>Location: TBA |
| | *Must be in the Special Education Leadership (Ed.D.), Germany to register. Golden ID students are not eligible for this section.* | |

**EDSP678Q** **Seminar in Special Education; Organizational Leadership I: Change in Special Education**

| | | | |
|---|---|---|---|
| PUB1 | Carl Lashley | Seats (Total: 25) |
| | **Meets September 6, 2024 - October 5, 2024** | |
| | F 5:00pm - 8:15pm | ONLINE |
| | Sa 9:00am - 11:45am | ONLINE |
| | Sa 12:30pm - 3:00pm | ONLINE |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Special Education (Ed.D), Shady Grove to register. Golden ID students are not eligible for this section.* | |

**EDSP678W** **Seminar in Special Education; Critical Policy and Research to Practice Issues for Administrators**

| | | |
|---|---|---|
| PZC1 | Lawrence Wexler | Seats (Total: 20) |
| | **Meets October 18, 2024 - November 23, 2024** | |
| | F 6:30pm - 9:30pm | Location: TBA |
| | Sa 9:00am - 4:30pm | Location: TBA |
| | *Must be in the Special Education Leadership (Ed.D.), Germany to register. Golden ID students are not eligible for this section.* | |

**EDSP684** **Reading and Writing Instruction in Special Education II**

(Perm req)

*Prerequisite: EDSP616. Restriction: Permission of EDUC-Counseling, Higher Education and Special Education department. Jointly offered with EDSP484. Credit only granted for: EDSP484 or EDSP684.*

*Development of effective reading and writing programs for students receiving special education services. Builds on the foundation established in EDSP 616.*

| | | |
|---|---|---|
| 0101 | Katryna Andrusik | Seats (Total: 40) |
| | Tu 1:00pm - 3:45pm | EDU 1121 |

**EDSP690** **Teacher Candidate Research Seminar in Special Education**

*Restriction: Must be in Special Education (Doctoral) program; or must be in Special Education (Master's) program.*

*Required seminar for master's certification teacher candidates in special education focusing on research methods and applications with students having disabilities.*

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|---|---|---|
| 0101 | Seyma Intepe Tingir | Seats (Total: 20) |
| | M 1:15pm - 4:00pm | EDU 1315 |

**EDSP692** **Graduate Internship I: Elementary/Middle Special Education**

*Restriction: Must be in Special Education (Master's) program. Credit only granted for: EDSP452 or EDSP692.*

*Field experience in elementary/middle school special education.*

| | | | |
|---|---|---|---|
| 0101 | Stacey Williams | Seats (Total: 5) | |
| | F 10:30am - 12:00pm<br>MTuWTh 8:00am - 1:00pm | Location: TBA<br>ONLINE | Lab |

**EDSP798** **Special Problems in Special Education**

(Perm req)

*Intended for Master's, AGS, or doctoral students in education who desire to pursue a research problem.*

Special education majors only.

**Contact department for information to register for this course.**

**EDSP799** **Master's Thesis Research**

*Registration required to the extent of six hours for Master's thesis.*

Special education majors only.

**Contact department for information to register for this course.**

**EDSP860** **Doctoral Research Seminar**

*Issues and procedures relevant to conducting and analyzing research in special education.*

| | | |
|---|---|---|
| 0101 | Gulnoza Yakubova | Seats (Total: 15) |
| | M 2:00pm - 4:45pm | JMZ 1120 |

**EDSP888** **Apprenticeship in Special Education**

(Perm req)

*Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.*

**Contact department for information to register for this course.**

**EDSP888A** **Apprenticeship in Special Education; Apprenticeship in College Teaching**

*Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.*

**Contact department for information to register for this course.**

**EDSP888M** **Apprenticeship in Special Education; MidPoint Evaluation Capstone Proposal**

*Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate- seeking graduate students.*

| | | |
|---|---|---|
| PZC1 | Paula Beckman | Seats (Total: 20) |
| | **Meets August 26, 2024 - December 17, 2024** | |
| | Contact instructor or department for details. | |
| | *Must be in the Special Education Leadership (Ed.D.), Germany to register. Golden ID students are not eligible for this section.* | |

**EDSP889** **Internship in Special Education**

(Perm req)

*Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.*

Special education majors only.

**Contact department for information to register for this course.**

**EDSP898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**EDSP899** **Doctoral Dissertation Research**

(Perm req)

*Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. dissertation.*

Special education majors only.

**Contact department for information to register for this course.**

# EDUC Education Fall 2024

**EDUC388** **Special Topics in Education; Guided Experience In College Teaching**

(Perm req)

| | | | |
|---|---|---|---|
| 0401 | Sharon Vanwright | Seats (Total: 20) | |
| | Class time/details on ELMs | ONLINE | |
| | Class time/details on ELMs | ONLINE | Discussion |
| | *Relates to the academic achievement program and should be taken concurrently with EDCI498, section 6601.* | | |

**EDUC388T** **Special Topics in Education; Guided Experience in College Teaching - UTA**

(Perm req)

| | | | |
|---|---|---|---|
| 0101 | Madiha Moin<br>M 5:00pm - 7:00pm<br>Class time/details on ELMs | Seats (Total: 30)<br>ONLINE<br>ONLINE | Discussion |

**EDUC388U** **Special Topics in Education; New Student Programs**

(Perm req)

| | | | |
|---|---|---|---|
| 0201 | Victoria Shay<br>M 5:00pm - 7:00pm<br>Contact instructor or department for details.<br>*Restricted to students who are teaching UNIV100 or UNIV101.* | Seats (Total: 25)<br>TWS 1106 | |
| 0501 | Rachel Blanset, Evelyn Covington-Moore<br>W 12:15pm - 1:45pm<br>Contact instructor or department for details. | Seats (Total: 20)<br>SYM 2200B | |

**EDUC498** **Selected Topics in Education**

(Perm req)

*Current topics and issues in education.*

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|---|---|---|---|
| 0101 | Madiha Moin<br>Contact instructor or department for details. | Seats (Total: 30) | |

**EDUC498B** **Selected Topics in Education; Career Development and Advising**

(Perm req)

*Current topics and issues in education.*

| | | | |
|---|---|---|---|
| 0101 | Christie De Leon, Brittani Berry<br>M 4:00pm - 4:50pm<br>Contact instructor or department for details. | Seats (Total: 15)<br>EDU 1204 | |
| 0201 | Christie De Leon, Brittani Berry<br>M 4:00pm - 4:50pm<br>Contact instructor or department for details. | Seats (Total: 7)<br>EDU 1204 | |

**EDUC646** **Leading Instructional Excellence**

*Prerequisite: EDUC645; or permission of instructor. Credit only granted for: EDHI646 or EDUC646. Formerly: EDHI646.*

*Leader's role in fostering high quality teaching and learning. Exploration of the relationship between curriculum instruction assessment and the organizational structure of K-12 public schooling. Development and assessment of frameworks for understanding instructional quality. Analysis of strategies for supporting teachers as they engage in curricular and professional development. Consideration of factors involved in creating and sustaining instructionally centered schools.*

| | | |
|---|---|---|
| PUM1 | Brian King | Seats (Total: 10) |
| | **Meets October 30, 2024 - December 18, 2024** | |
| | W 5:00pm - 8:00pm | ONLINE |
| | *Must be in School Improvement Leadership, Online to register. Golden ID students are not eligible for this section.* | |

**EDUC670 Learning Communities**

*Credit only granted for: EDHI670 or EDUC670. Formerly: EDHI670.*

*Reviews contemporary research on student and teacher learning and schools as learning organizations. It aims to build students understanding of opportunities and challanges to implementing learning environments in various educational organizations. Readings, cases and assignments emphasize students' understanding of learning theories and their application to various organizational settings.*

| | | |
|---|---|---|
| PUM1 | Sheila Jackson | Seats (Total: 15) |
| | **Meets August 26, 2024 - October 19, 2024** | |
| | W 5:00pm - 8:00pm | ONLINE |
| | *Must be in School Improvement Leadership, Online to register. Golden ID students are not eligible for this section. Class meets August 28, September 4, 11, 18, 25, and October 2, 9, and 16.* | |

**EDUC702 Applied Research Design for Education Leaders**

*Restriction: Permission of EDUC-College of Education. Credit only granted for: EDUC702 or EDHI702. Formerly: EDHI 702.*

*Emphasizes quantitative and qualitative methodologies to investigate a range of educational problems. Designed for EdD doctoral students.*

| | | |
|---|---|---|
| PXG1 | Christine Neumerski | Seats (Total: 20) |
| | **Meets August 26, 2024 - December 11, 2024** | |
| | F 4:00pm - 8:00pm | Location: TBA |
| | Sa 8:30am - 4:00pm | Location: TBA |
| | *Must be in School System Leadership (Ed.D.) to register. Golden ID students are not eligible for this section. Meets at Laurel College Center (Room 502)* | |

**EDUC705** **Education Policy Making and the School Leader**

*Restriction: Permission of EDUC-College of Education. Credit only granted for: EDUC705 or EDPL663. Formerly: EDPL663.*

*Course analyzes educational K-12 policies and their impacts on school systems and the leadership of those systems*

| | | |
|---|---|---|
| PXH2 | Drew Fagan | Seats (Total: 20) |
| | **Meets August 26, 2024 - December 11, 2024** | |
| | Th 5:00pm - 8:15pm | Location: TBA |
| | Class time/details on ELMs | ONLINE |
| | *Must be in School System Leadership (Ed.D.), TESOL to register. Golden ID students are not eligible for this section.* | |

**EDUC828** **Mid-Program Evaluation Portfolio**

(Perm req)

*Students will examine issues of performance assessment and develop a professional portfolio that follow NELP standards and assessment criteria and will compile and synthesize research/inquiry and experiential learning and reflections that demonstrate mastery of the standards.*

**Contact department for information to register for this course.**

**EDUC829** **Doctoral Capstone**

(Perm req)

*The completion of a doctoral capstone is required for all professional practice doctoral students, allowing demonstration of excellence in professional practice in the field of education leadership. The topic, activities, and outcomes related to the doctoral capstone must be approved by the doctoral advisor and capstone committee and presented and defended by the student.*

**Contact department for information to register for this course.**

**EDUC888** **Applied Apprenticeship in Education**

*Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals.*

| | | |
|---|---|---|
| PUG2 | Douglas Anthony | Seats (Total: 40) |
| | **Meets August 26, 2024 - December 11, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Must be in School System Leadership (Ed.D.) to register. Golden ID students are not eligible for this section.* | |

**EDUC898** **Pre-Candidacy Research**

*Pre-Candidacy Research*

**Contact department for information to register for this course.**

**EDUC899** **Dissertation of Practice Research**

(Perm req)

*Registration required to the extent of 6-9 hours for an Ed.D. Dissertation.*

PGCPS II EdD Outreach Program. Registration restricted to program.

**Contact department for information to register for this course.**

# EMBA Executive MBA Program Fall 2024

**EMBA637** **Corporate Finance**

*Restriction: Must be in Executive MBA program.*

*Presents key concepts in corporate finance as well as tools used in making corporate financial decisions. Topics include valuation of corporate securities, capital investment decision making, capital market theory, operation and efficiency of financial markets, corporate financing decisions, and risk management.*

**Contact department for information to register for this course.**

**EMBA681** **Managerial Economics and Public Policy**

*Restriction: Must be in Executive MBA program.*

*Basic microeconomic principles used by firms, including supply and demand, elasticities, costs, productivity, pricing, marketing structure and competitive implications of alternative market structures. Market failures and government intervention. Public policy processes affecting business operations.*

**Contact department for information to register for this course.**

**EMBA757** **Marketing Strategy**

*Restriction: Must be in Executive MBA program.*

*A capstone marketing course. Marketing strategies designed to manage products in selected market segments. Topics covered include competitor analysis, buyer analysis, market segments, and product strengths and weaknesses; product related issues are identified and marketing strategies developed, assessed and implemented.*

**Contact department for information to register for this course.**

**EMBA759** **Independent Study**

(Perm req)

*Independent study for Masters students in Business.*

**Contact department for information to register for this course.**

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**EMBA788L** **Executive Skills Mastery; Business Law for Managers**

*This course is designed to focus on the development of the specific set of skills that executives need to successfully perform in today's organizational environment. Students complete assessments which help to target their specific skill level and in the aggregate give instructors clear ideas on the needs of the cohort. The assessments also augment executive coaching, when provided. This is typically registered as a one credit course except when a particular program's cirriculum allocates enough contact hours to all course topics to be covered at a more advanced level.*

**Contact department for information to register for this course.**

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**EMBA788W** **Executive Skills Mastery; Doing Business in Asia: Supply Chain Challenges and Opportunities in Asia**

(Perm req)

*This course is designed to focus on the development of the specific set of skills that executives need to successfully perform in today's organizational environment. Students complete assessments which help to target their specific skill level and in the aggregate give instructors clear ideas on the needs of the cohort. The assessments also augment executive coaching, when provided. This is typically registered as a one credit course except when a particular program's cirriculum allocates enough contact hours to all course topics to be covered at a more advanced level.*

| | | |
|---|---|---|
| GX01 | Zhi-Long Chen<br>**Meets October 21, 2024 - December 10, 2024**<br>Su 12:00pm - 1:00pm<br>Contact instructor or department for details. | Seats (Total: 5)<br><br>VMH 1333 |

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**EMBA789N** **Leadership Mastery**

*This course addresses organizational challenges from the CEO or C-level perspective. At this level, the ability to engage ambiguity and chaos effectively is essential. Creating strategy while using a systems approach and understanding how each functional area interacts with the other (with both the short-term and long-term in mind) are of very high importance. The course covers topics that consume the days of senior level leaders in organizations. This is typically registered as a one credit course except when a particular program's cirriculum allocates enough contact hours to all course topics to be covered at a more advanced level.*

| | | |
|---|---|---|
| EM24 | Rosellina Ferraro<br>**Meets August 1, 2024 - December 23, 2024**<br>Contact instructor or department for details. | Seats (Total: 50) |

**EMBA798G** **Action Learning Project**

*This course is designed to give the student the opportunity to work on a real-time, salient business challenge or issue for the sponsoring organization. This is often the student's employer. Students are encouraged to design projects which extend beyond a single functional area and require them to examine the interaction of multiple functional areas from a systems perspective. Students work in teams for the projects. This allows them to learn from one another, as well as to learn how to work more effectively in teams - especially in a largely virtual environment. This is typically a two credit course when projects are initiated and completed entirely within a single term. It may be a one credit course when projects extend over more than one term.*

| | | |
|---|---|---|
| EM24 | Jacqueline Manger, Jeffrey Mund | Seats (Total: 50) |
| | **Meets July 1, 2024 - December 9, 2024** | |
| | Contact instructor or department for details. | |

**EMBA798K** **Action Learning Project**

*This course is designed to give the student the opportunity to work on a real-time, salient business challenge or issue for the sponsoring organization. This is often the student's employer. Students are encouraged to design projects which extend beyond a single functional area and require them to examine the interaction of multiple functional areas from a systems perspective. Students work in teams for the projects. This allows them to learn from one another, as well as to learn how to work more effectively in teams - especially in a largely virtual environment. This is typically a two credit course when projects are initiated and completed entirely within a single term. It may be a one credit course when projects extend over more than one term.*

**Contact department for information to register for this course.**

# ENAE Engineering, Aerospace Fall 2024

**ENAE100** **The Aerospace Engineering Profession**

(Perm req)

*Recommended: ENES100 and MATH140.*

*Overview of salient aspects of professional practice of Aerospace Engineering. Introduction to the range of technical expertise needed to succeed in the profession and the objectives of the various parts of the Aerospace Engineering program at UMCP in supporting students' efforts in gaining the required knowledge and skills. Familiarization with departmental faculty and their areas of research, creation of links with other students, professional society student chapters, and available resources. Discussion of ethical issues, business requirements, and their interactions with technical developments.*

| | | | |
|---|---|---|---|
| 0101 | Christine Hartzell | Seats (Total: 30) | |
| | Tu 12:30pm - 1:45pm | EGR 1202 | |
| | M 2:00pm - 2:50pm | MTH B0427 | Discussion |

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|---|---|---|---|
| 0102 | Christine Hartzell<br>Tu 12:30pm - 1:45pm<br>M 4:00pm - 4:50pm | Seats (Total: 30)<br>EGR 1202<br>MTH 0407 | Discussion |
| 0103 | Christine Hartzell<br>Tu 12:30pm - 1:45pm<br>Tu 11:00am - 11:50am | Seats (Total: 30)<br>EGR 1202<br>HBK 0103 | Discussion |
| 0104 | Christine Hartzell<br>Tu 12:30pm - 1:45pm<br>W 2:00pm - 2:50pm | Seats (Total: 30)<br>EGR 1202<br>MTH 0402 | Discussion |
| 0105 | Christine Hartzell<br>Tu 12:30pm - 1:45pm<br>W 4:00pm - 4:50pm | Seats (Total: 30)<br>EGR 1202<br>MTH 0407 | Discussion |

**ENAE202** **Computing Fundamentals for Engineers**

(Perm req)

*Corequisite: MATH141. Credit only granted for: ENAE202 or ENME202.*

*Introduction to computational tools for the solution of engineering problems. C++ & MATLAB programming including branching and loops, functions, file handling, arrays, and data structures. Students will be introduced to object-oriented programming, basic computing, algorithms, and principles of software engineering.*

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|---|---|---|---|
| 0104 | Lin Cheng, Davis McGregor<br>MW 11:00am - 11:50am<br>W 2:00pm - 3:50pm | Seats (Total: 29)<br>KEY 0106<br>EGR 0312 | Lab |

**ENAE283** **Introduction to Aerospace Systems**

*Prerequisite: PHYS161, MATH141, and ENES102. Corequisite: PHYS261 and PHYS260. Restriction: Must be in Engineering: Aerospace program. Credit only granted for: (ENAE281 and ENAE282) or ENAE283. Formerly: ENAE281 and ENAE282.*

*Introduction to airplanes and space vehicles as aerospace systems. Fundamentals that describe these systems. Elements of aerodynamics, airfoils and wings. Airplane performance, stability and control. Aircraft and rocket propulsion. Fundamentals of orbital motion. Aspects of vehicle conceptual design.*

| | | | |
|---|---|---|---|
| 0101 | Mary Bowden<br>TuTh 12:30pm - 1:45pm | Seats (Total: 66)<br>EGR 1108 | |
| 0102 | Benjamin Silbaugh<br>TuTh 12:30pm - 1:45pm | Seats (Total: 70)<br>JMP 3201 | |

**ENAE283H** **Introduction to Aerospace Systems**

(Perm req)

*Prerequisite: PHYS161, MATH141, and ENES102. Corequisite: PHYS261 and PHYS260. Restriction: Must be in Engineering: Aerospace program. Credit only granted for: (ENAE281 and ENAE282) or ENAE283. Formerly: ENAE281 and ENAE282.*

*Introduction to airplanes and space vehicles as aerospace systems. Fundamentals that describe these systems. Elements of aerodynamics, airfoils and wings. Airplane performance, stability and control. Aircraft and rocket propulsion. Fundamentals of orbital motion. Aspects of vehicle conceptual design.*

| | | | |
|---|---|---|---|
| 0101 | Alison Flatau<br>TuTh 12:30pm - 1:45pm | Seats (Total: 24)<br>JMP 2202 | |

**ENAE301** **Dynamics of Aerospace Systems**

*Prerequisite: PHYS271, MATH461, PHYS270, MATH246, ENAE283, ENAE202, ENES102, and MATH241. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.*

*Kinematics and dynamics of three dimensional motion of point masses and rigid bodies with introduction to more general systems. Primary emphasis on Newtonian methods. Practice in numerical solutions and computer animation of equations of motion using MATLAB.*

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|---|---|---|---|
| 0101 | Derek Paley<br>TuTh 12:30pm - 1:45pm<br>F 1:00pm - 1:50pm | Seats (Total: 39)<br>ESJ 2208<br>JMP 2202 | <br><br>Lab |
| 0102 | Derek Paley<br>TuTh 12:30pm - 1:45pm<br>F 2:00pm - 2:50pm | Seats (Total: 39)<br>ESJ 2208<br>JMP 2202 | <br><br>Lab |
| 0103 | Derek Paley<br>TuTh 12:30pm - 1:45pm<br>F 3:00pm - 3:50pm | Seats (Total: 39)<br>ESJ 2208<br>JMP 2202 | <br><br>Lab |
| 0104 | Derek Paley<br>TuTh 12:30pm - 1:45pm<br>F 4:00pm - 4:50pm | Seats (Total: 39)<br>ESJ 2208<br>JMP 2202 | <br><br>Lab |

**ENAE311** **Compressible Aerodynamics**

*Prerequisite: PHYS271, (MATH240 or MATH461), PHYS270, MATH246, ENAE283, ENES220, ENAE202, MATH241, and ENES232. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department; and junior standing or higher.*

*Fundamentals of aerodynamics. Elements of compressible flow. Normal and oblique shock waves. Flows through nozzles, diffusers and wind tunnels. Elements of the method of characteristics and finite difference solutions for compressible flows. Aspects of hypersonic flow.*

Prerequisite: ENAE311 or enrolled in hypersonics graduate certificate program. Corequisite: ENAE481 or ENAE483.

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|---|---|---|---|
| 0101 | Christopher Cadou<br>TuTh 9:30am - 10:45am | Seats (Total: 60)<br>ESJ 1215 | |
| 0102 | Pino Martin<br>TuTh 9:30am - 10:45am | Seats (Total: 40)<br>PHY 0405 | |

**ENAE311H** **Compressible Aerodynamics**

(Perm req)

*Prerequisite: PHYS271, (MATH240 or MATH461), PHYS270, MATH246, ENAE283, ENES220, ENAE202, MATH241, and ENES232. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department; and junior standing or higher.*

*Fundamentals of aerodynamics. Elements of compressible flow. Normal and oblique shock waves. Flows through nozzles, diffusers and wind tunnels. Elements of the method of characteristics and finite difference solutions for compressible flows. Aspects of hypersonic flow.*

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|---|---|---|---|
| 0101 | Christoph Brehm<br>TuTh 9:30am - 10:45am | Seats (Total: 25)<br>EGR 2116 | |

**ENAE362** **Aerospace Instrumentation and Experimentation**

*Prerequisite: MATH246 and ENAE283.  Restriction: Must be in Engineering: Aerospace program; and junior standing or higher.*

*Basic instrumentation electronics including DC electronics, AC electronics, semiconductors, electro-optics and digital electronics. Sensing devices used to carry out experiments in Aerospace Engineering includes metrology, machine tool measurements, bridge circuits, optical devices, and introduction to computer based data acquisition. Topics chosen to support measurements in aerodynamics, flight structures and flight control.*

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|---|---|---|---|
| 0101 | Benjamin Silbaugh, Allen Winkelmann, Ulrich Leiste<br>MW 1:00pm - 1:50pm<br>M 2:00pm - 5:00pm | Seats (Total: 24)<br>EGR 1202<br>EGL 0123 | <br><br>Lab |

| | | | |
|---|---|---|---|
| 0102 | Benjamin Silbaugh, Ulrich Leiste, Allen Winkelmann<br>MW 1:00pm - 1:50pm<br>Tu 2:00pm - 5:00pm | Seats (Total: 24)<br>EGR 1202<br>EGL 0123 | <br><br>Lab |
| 0103 | Benjamin Silbaugh, Ulrich Leiste, Allen Winkelmann<br>MW 1:00pm - 1:50pm<br>W 2:00pm - 5:00pm | Seats (Total: 24)<br>EGR 1202<br>EGL 0123 | <br><br>Lab |
| 0104 | Benjamin Silbaugh, Ulrich Leiste, Allen Winkelmann<br>MW 1:00pm - 1:50pm<br>Th 2:00pm - 5:00pm | Seats (Total: 24)<br>EGR 1202<br>EGL 0123 | <br><br>Lab |
| 0105 | Benjamin Silbaugh, Ulrich Leiste, Allen Winkelmann<br>MW 1:00pm - 1:50pm<br>W 8:50am - 11:50am | Seats (Total: 24)<br>EGR 1202<br>EGL 0123 | <br><br>Lab |
| 0106 | Allen Winkelmann, Benjamin Silbaugh, Ulrich Leiste<br>MW 1:00pm - 1:50pm<br>F 8:50am - 11:50am | Seats (Total: 24)<br>EGR 1202<br>EGL 0123 | <br><br>Lab |

**ENAE380** **Flight Software Systems**

*Prerequisite: ENAE283 and ENAE202. Restriction: Must be in Engineering: Aerospace program; and junior standing or higher.*

*Avionics using advanced sensor and computing technologies are at the heart of every modern Aerospace vehicle. Advanced software systems to improve cockpit safety and enable unmanned and deep-space missions. Object-oriented programming and software engineering concepts required to design and build complex flight software systems. Software validation, verification and real-time performance analysis to assess flight software system reliability and robustness. Human-machine interface design for piloted systems. Automatic onboard data acquisition and decision-making for unmanned air and space vehicles.*

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|---|---|---|---|
| 0101 | Mumu Xu<br>MW 12:00pm - 12:50pm<br>F 9:00am - 10:50am | Seats (Total: 32)<br>EGR 1202<br>BPS 1228 | <br><br>Discussion |

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|---|---|---|---|
| 0102 | Mumu Xu<br>MW 12:00pm - 12:50pm<br>F 1:00pm - 2:50pm | Seats (Total: 32)<br>EGR 1202<br>EGR 0135 | <br><br>Lab |
| 0104 | Mumu Xu<br>MW 12:00pm - 12:50pm<br>F 1:00pm - 2:50pm | Seats (Total: 32)<br>EGR 1202<br>EGR 1104 | <br><br>Lab |
| 0105 | Mumu Xu<br>MW 12:00pm - 12:50pm<br>W 9:00am - 10:50am | Seats (Total: 32)<br>EGR 1202<br>JMP 1202 | <br><br>Lab |
| 0106 | Mumu Xu<br>MW 12:00pm - 12:50pm<br>W 10:00am - 11:50am | Seats (Total: 32)<br>EGR 1202<br>CHE 2136 | <br><br>Lab |

**ENAE398H** **Honors Research Project**

(Perm req)

*Planned sequence of steps in aerospace honors research in which students take three (3) consecutive semesters of this course in partial fulfillment of aerospace engineering honors program requirements. The first semester consists of a series of seminars and meetings with faculty mentors on honors research; two semesters consist of undergraduate honors research project and paper conducted under the direction of an aerospace engineering faculty member to be presented at a conference.*

**Contact department for information to register for this course.**

**ENAE403** **Aircraft Flight Dynamics**

*Prerequisite: ENAE414 and ENAE432. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.*

*Study of motion of aircraft, equations of motion, aerodynamic force representation, longitudinal and lateral motions, response to controls and to atmospheric disturbances, handling qualities criteria and other figures of merit.*

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|---|---|---|
| 0101 | Michael Otte<br>TuTh 3:30pm - 4:45pm | Seats (Total: 70)<br>ESJ 1202 |

**ENAE414** **Incompressible Aerodynamics**

*Prerequisite: PHYS271, (MATH240 or MATH461), PHYS270, MATH246, ENAE283, ENES220, ENAE202, MATH241, and ENES232. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department; and junior standing or higher.*

*Aerodynamics of inviscid incompressible flows. Aerodynamic forces and moments. Fluid statics/buoyancy force. Vorticity, circulation, the stream function and the velocity potential. Bernoulli's and Laplace's equations. Flows in low speed wind tunnels and airspeed measurement. Potential flows involving sources and sinks, doublets, and vortices. Development of the theory of airfoils and wings.*

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|---|---|---|
| 0101 | Benjamin Silbaugh | Seats (Total: 60) |
| | TuTh 9:30am - 10:45am | EGR 1108 |

**ENAE423** **Vibration and Aeroelasticity**

*Prerequisite: ENAE324. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.*

*Dynamic response of single and multiple degrees of freedom systems, finite element modeling, wing divergence, aileron reversal, wing and panel flutter.*

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|---|---|---|
| 0101 | Sung Lee | Seats (Total: 130) |
| | MWF 11:00am - 11:50am | HJP 0226 |

**ENAE423H** **Vibration and Aeroelasticity**

(Perm req)

*Prerequisite: ENAE324. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.*

*Dynamic response of single and multiple degrees of freedom systems, finite element modeling, wing divergence, aileron reversal, wing and panel flutter.*

| | | |
|---|---|---|
| 0101 | Norman Wereley | Seats (Total: 25) |
| | MWF 11:00am - 11:50am | JMP 1109 |

**ENAE441** **Space Navigation and Guidance**

*Prerequisite: ENAE404 and ENAE432. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.*

*Principles of navigation. Celestial, radio, and inertial navigation schemes. Navigational and guidance requirements for orbital, planetary, and atmospheric entry missions. Fundamentals of communications and information theory. Link budgets, antennas and telemetry systems.*

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|---|---|---|
| 0101 | John Martin | Seats (Total: 100) |
| | TuTh 9:30am - 10:45am | KEB 1110 |

**ENAE455** **Aircraft Propulsion and Power**

*Prerequisite: ENES232, ENAE414, and ENAE311. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.*

*Thermodynamic cycle analysis, aerothermochemistry of fuels and propellants, operating principles of piston, turbojet, fanjet, and other variations of airbreathing aircraft power units.*

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|---|---|---|
| 0101 | Kenneth Yu | Seats (Total: 70) |
| | TuTh 12:30pm - 1:45pm | PLS 1140 |

**ENAE457** **Space Propulsion and Power**

*Prerequisite: PHYS271, ENES232, PHYS270, and ENAE311. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department. And senior standing.*

*Thermodynamic cycle analysis, aerothermochemistry of fuels and propellants, operating principles of rocket, ion, and other exoatmospheric power units.*

| | | |
|---|---|---|
| 0101 | Ray Sedwick | Seats (Total: 100) |
| | TuTh 2:00pm - 3:15pm | JMP 3201 |

**ENAE457H** **Space Propulsion and Power**

(Perm req)

*Prerequisite: PHYS271, ENES232, PHYS270, and ENAE311. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department. And senior standing.*

*Thermodynamic cycle analysis, aerothermochemistry of fuels and propellants, operating principles of rocket, ion, and other exoatmospheric power units.*

| | | |
|---|---|---|
| 0101 | Ray Sedwick | Seats (Total: 25) |
| | TuTh 12:30pm - 1:45pm | CHM 2201 |

**ENAE472** **Introduction to Hypersonics**

*Prerequisite: ENAE311 or enrolled in hypersonics graduate certificate program. Corequisite: ENAE481 or ENAE483 (if not enrolled in hypersonics graduate certificate program). Restriction: Students must be in the Hypersonic Graduate Certificate Program (code: Z165) or receive permission from the department. Credit only granted for: ENAE488N or ENAE472. Formerly: ENAE488N.*

*Introduces students to the various key aspects of flight at hypersonic speeds. Critical aerodynamic phenomena to be covered includes the qualitative behavior of flow fields in the high-Mach-numberlimit, approximate methods for quantifying surface pressure, and estimates of viscous drag and heating. High-speed air-breathing propulsion systems will be discussed, including cycle analysis and performance metrics for propulsion, with a main emphasis onthe fundamentals of ramjet and scramjet engines. Key Guidance, Navigation and Control (GNC) concepts for various hypersonic vehicle types will also be introduced, including the design of appropriate flight trajectories and control algorithms to achieve mission goals. Finally, students will be provided with an overview of high-temperature materials, structures, and thermal protection systems.*

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|---|---|---|
| 0101 | Jeffrey Barton, Gianna Valentino, Stuart Laurence, Shenqiang Ren, Kerri Phillips, Kenneth Yu, Keith Dupree<br>MWF 10:00am - 10:50am | Seats (Total: 20)<br>EGR 1102 |
| AEA1 | Kerri Phillips, Shenqiang Ren, Stuart Laurence, Gianna Valentino, Jeffrey Barton, Keith Dupree, Kenneth Yu<br>MWF 10:00am - 10:50am | Seats (Total: 10)<br>ONLINE |

**ENAE481** **Principles of Aircraft Design**

*Prerequisite: ENAE324, ENAE362, and ENAE432. Corequisite: ENAE414. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.*

*Aircraft design principles blending both synthesis and analysis. The iterative nature of the design process. Applied aerodynamics. Elements of aircraft performance calculation and optimization. Design of aircraft including payload, crew and avionics provisions, propulsion selection and sizing, aerodynamic configuration optimization, mass properties, stability and control characteristics, and vehicle subsystems. Individual student projects in aircraft design.*

Restricted to students in the Vertical Flight Society Helicopter Design Competition and requires permission of the instructor to enroll.

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|---|---|---|
| 0101 | Dominic Palumbo<br>MWF 2:00pm - 2:50pm | Seats (Total: 45)<br>MTH B0421 |
| 0201 | Sung Lee<br>TuTh 2:00pm - 3:15pm<br>*Restricted to students on the Design, Build, Fly team and requires permission from the department to enroll.* | Seats (Total: 20)<br>BPS 1250 |
| 0301 | Vengalattore Nagaraj<br>TuTh 2:00pm - 3:15pm<br>*Restricted to students in the Vertical Flight Society Helicopter Design Competition and requires permission of the instructor to enroll. Membership of Vertical Flight Society is not necessary to enroll in the class.* | Seats (Total: 10)<br>EGR 3111 |

**ENAE483** **Principles of Space Systems Design**

*Prerequisite: ENAE404, ENAE324, ENAE362, and ENAE432. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department.*

*Principles of space systems analysis and vehicle design. Launch vehicle performance analysis and optimization. Design of vehicle systems including avionics, power, propulsion, life support, human factors, structures, actuator and mechanisms, and thermal control. Design processes and design synthesis. Individual student projects in vehicle design.*

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|---|---|---|
| 0101 | David Akin | Seats (Total: 100) |
| | TuTh 11:00am - 12:15pm | ESJ 1202 |

**ENAE488G** **Topics in Aerospace Engineering; Offshore Wind Energy**

*Technical elective taken with the permission of the student's advisor and instructor. Lecture and conference courses designed to extend the student's understanding of aerospace engineering. Current topics are emphasized.*

Restriction: Must be a student with junior status. This course will introduce students to the various fundamental key aspects related to offshore wind. The first part of the course will cover the basics of meteorology related to wind and waves and then how wind turbines are able to change the translational kinetic energy in the wind into rotational kinetic energy of the blades. The second portion concerns the structures of offshore wind turbines and how they are installed. The third portion then looks at how the turbine is controlled to convert the rotational kinetic energy to electricity in a safe and efficient manner. The fourth portion specializes in the environmental and financial issues associated with offshore wind farms. Finally the longterm operations and maintenance of individual turbines and wind farms will be explored. Successful completion of this course should be sufficient to enable entry into the off shore wind industry while also encouraging the student to examine each of these five areas in more detail.

| | | | |
|---|---|---|---|
| 0101 | James Baeder | Seats (Total: 10) | |
| | Class time/details on ELMs | ONLINE | |
| | TuTh 4:00pm - 4:50pm | Location: TBA | Discussion |

**ENAE499** **Elective Research**

(Perm req)

*Undergraduate research project and paper conducted under the direction of an aerospace engineering faculty member to be presented at a conference or competition.*

**Contact department for information to register for this course.**

**ENAE601** **Astrodynamics**

*Prerequisite: ENAE404; or permission of ENGR-Aerospace Engineering department.*

*Mathematics and applications of orbit theory, building upon the foundations developed in ENAE 404 and ENAE 441. Topics include two body orbits, solutions of Kepler's equation, the two-point boundary value problem, rendezvous techniques, and Encke's method.*

| | | |
|---|---|---|
| 0101 | Christine Hartzell | Seats (Total: 25) |
| | TuTh 2:00pm - 3:15pm | HBK 0125 |

**ENAE603** **Near-Earth Object Exploration**

(Perm req)

*Prerequisite: ENAE601. Restriction: Must be in one of the following programs (ENGR: MS/PhD-Aerospace Engineering (Master's); ENGR: MS/PhD-Aerospace Engineering (Doctoral)). Credit only granted for: ENAE788N or ENAE603. Formerly: ENAE788N.*

*An overview of the near-Earth objects (NEOs) of our solar system--the asteroids and comets whose orbits closely approach Earth's orbit--and what we know about them, what we're learning about them, and how to design spacecraft missions to interact with them.*

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|---|---|---|
| 0101 | Brent Barbee<br>TuTh 5:00pm - 6:15pm | Seats (Total: 15)<br>MTH B0431 |

**ENAE631 Helicopter Aerodynamics I**

(Perm req)

*Prerequisite: ENAE414 and ENAE311. Or permission of ENGR-Aerospace Engineering department; and permission of instructor.*

*A history of rotary-wing aircraft, introduction to hovering theory, hovering and axial flight performance, factors affecting hovering and vertical flight performance, autorotation in vertical descent, concepts of blade motion and control, aerodynamics of forward flight, forward flight performance, operational envelope, and introduction to rotor acoustics.*

Those sections that begin with a letter are taught via ITV and are not intended for College Park campus students.

| | | |
|---|---|---|
| 0101 | Inderjit Chopra<br>TuTh 9:30am - 10:45am | Seats (Total: 20)<br>JMP 2216 |
| TV01 | Inderjit Chopra<br>TuTh 9:30am - 10:45am | Seats (Total: 5)<br>Location: TBA |

**ENAE636 Helicopter Dynamics II**

*Credit only granted for: ENAE788R or ENAE636. Formerly: ENAE788R.*

*Aerodynamics, dynamics and aeromechanics of helicopters and tilt rotor aircraft. Experimental testing and mathematical modeling required for the design and analysis of such aircraft.*

| | | |
|---|---|---|
| 0101 | Anubhav Datta<br>MW 9:30am - 10:45am | Seats (Total: 15)<br>JMP 2222 |
| TV01 | Anubhav Datta<br>MW 9:30am - 10:45am | Seats (Total: 5)<br>Location: TBA |

**ENAE641 Linear System Dynamics**

*Prerequisite: ENAE432.*

*Linear systems; state space, multi-input, multi-output models; eigenstructure; controllability, observability, singular value analysis; multivariable Nyquist condition; observer design; introduction to Kalman filtering. Full state feedback techniques including pole placement and LQR/LQG techniques; introduction to loop shaping and robustness.*

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|---|---|---|
| 0101 | Robert Sanner<br>TuTh 12:30pm - 1:45pm | Seats (Total: 25)<br>CHE 2136 |

**ENAE651** **Smart Structures**

*Topics related to the analysis, design, and implementation of smart structures and systems: modeling of beams and plates with induced strain actuation; shape memory alloys; electro-rheological fluids; magnetostrictor and electrostricter actuators and fiber optic sensors.*

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|---|---|---|
| 0101 | Inderjit Chopra<br>TuTh 2:00pm - 3:15pm | Seats (Total: 20)<br>JMP 2216 |
| TV01 | Inderjit Chopra<br>TuTh 2:00pm - 3:15pm | Seats (Total: 5)<br>Location: TBA |

**ENAE655** **Structural Dynamics**

*Advanced principles of dynamics necessary for structural analysis; solutions of eigenvalue problems for discrete and continuous elastic systems, solutions to forced response boundary value problems by direct, modal, and transform methods.*

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|---|---|---|
| 0101 | Anubhav Datta<br>WF 1:00pm - 2:15pm | Seats (Total: 35)<br>MTH 0303 |

**ENAE662** **Space Propulsion and Power**

*Prerequisite: ENES232 and ENAE311; or equivalents. Restriction: Must be in Engineering: Aerospace program; or permission of ENGR-Aerospace Engineering department; and must have senior or graduate standing. Jointly offered with: ENAE457. Credit only granted for: ENAE457, ENAE457H, ENAE662.*

*Thermodynamic cycle analysis, aerothermochemistry of fuels and propellants, operating principles of rocket, ion, and other exoatmospheric power units.*

| | | |
|---|---|---|
| 0101 | Ray Sedwick<br>TuTh 12:30pm - 1:45pm | Seats (Total: 10)<br>CHM 2201 |

**ENAE673** **Aerodynamics of Incompressible Fluids**

*Prerequisite: Undergraduate courses in differential equations, incompressible, and compressible flow (ENAE311; and one course from ENAE414; ENME331, OR ENME640, or equivalent). Restriction: Must be in ENGR: MS/PhD-Aerospace Engineering (Master's) program.*

*Introduces the fundamental concepts of incompressible flows. Topics to be addressed include the conservation equations, potential flow, lift and drag, Navier-Stokes equations, boundary layers and similarity solutions, and solutions to classical problems.*

| | | |
|---|---|---|
| 0101 | Pino Martin<br>TuTh 8:00am - 9:15am | Seats (Total: 20)<br>EGR 3102 |

**ENAE681** **Engineering Optimization**

*Methods for unconstrained and constrained minimization of functions of several variables. Sensitivity analysis for systems of algebraic equations, eigenvalue problems, and systems of ordinary differential equations. Methods for transformation of an optimization problem into a sequence of approximate problems. Optimum design sensitivity analysis.*

| | | |
|---|---|---|
| 0201 | John Tritschler<br>M 6:30pm - 9:00pm | Seats (Total: 15)<br>EGR 1110 |

**ENAE682** **Hypersonic Aerodynamics**

*Restriction: Permission of ENGR-Aerospace Engineering department.*

*Hypersonic shock and expansion waves, Newtonian theory, Mach methods, numerical solutions to hypersonic inviscid flows, hypersonic boundary layer theory, viscous interactions, numerical solutions to hypersonic viscous flows. Applications to hypersonic vehicles.*

| | | |
|---|---|---|
| 0101 | Stuart Laurence<br>TuTh 2:00pm - 3:15pm | Seats (Total: 20)<br>ONLINE |
| AEA1 | Stuart Laurence<br>TuTh 2:00pm - 3:15pm | Seats (Total: 15)<br>ONLINE |

**ENAE684** **Computational Fluid Dynamics I**

(Perm req)

*Restriction: Permission of ENGR-Aerospace Engineering department.*

*Partial differential equations applied to flow modelling, fundamental numerical techniques for the solution of these equations, elliptic, parabolic, and hyperbolic equations, elements of finite difference solutions, explicit and implicit techniques. Applications to fundamental flow problems.*

| | | |
|---|---|---|
| 0101 | James Baeder<br>TuTh 11:00am - 12:15pm | Seats (Total: 25)<br>ATL 2330 |

| | | |
|---|---|---|
| TV01 | James Baeder<br>TuTh 11:00am - 12:15pm | Seats (Total: 10)<br>Location: TBA |

**ENAE686** **Computational and Experimental Methods for Hypersonic Flows**

(Perm req)

*Recommended: ENAE682. Restriction: Permission of ENGR-Aerospace Engineering department.*

*Provides a comprehensive framework on computational and experimental methods for investigating hypersonic flows, covering essential topics and providing a balanced mix of theory and practical applications.*

| | | |
|---|---|---|
| 0101 | Stuart Laurence, Christoph Brehm<br>TuTh 3:30pm - 4:45pm | Seats (Total: 15)<br>EGR 3111 |
| AEA1 | Christoph Brehm, Stuart Laurence<br>Class time/details on ELMs | Seats (Total: 15)<br>ONLINE |

**ENAE788B** **Selected Topics in Aerospace Engineering; Aircraft System Identification**

| | | |
|---|---|---|
| 0101 | Jared Grauer<br>M 12:00pm - 2:00pm | Seats (Total: 20)<br>EGR 3102 |

**ENAE788D** **Selected Topics in Aerospace Engineering; Advanced Space Systems Design**

| | | |
|---|---|---|
| 0101 | David Akin<br>TuTh 11:00am - 12:15pm | Seats (Total: 8)<br>ESJ 1202 |

**ENAE788G** **Selected Topics in Aerospace Engineering; Offshore Wind Energy**

This course will introduce students to the various fundamental key aspects related to offshore wind. The first part of the course will cover the basics of meteorology related to wind and waves and then how wind turbines are able to change the translational kinetic energy in the wind into rotational kinetic energy of the blades. The second portion concerns the structures of offshore wind turbines and how they are installed. The third portion then looks at how the turbine is controlled to convert the rotational kinetic energy to electricity in a safe and efficient manner. The fourth portion specializes in the environmental and financial issues associated with offshore wind farms. Finally the longterm operations and maintenance of individual turbines and wind farms will be explored. Successful completion of this course should be sufficient to enable entry into the off shore wind industry while also encouraging the student to examine each of these five areas in more detail.

| | | | |
|---|---|---|---|
| 0101 | James Baeder<br>Class time/details on ELMs<br>TuTh 4:00pm - 4:50pm | Seats (Total: 10)<br>ONLINE<br>EGR 1110 | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 0102 | James Baeder | Seats (Total: 10) | |
| | Class time/details on ELMs | ONLINE | |
| | Class time/details on ELMs | ONLINE | Discussion |

**ENAE788L** **Selected Topics in Aerospace Engineering; Optimal Estimation of Dynamic Systems**

| | | |
|---|---|---|
| 0101 | Liam Healy | Seats (Total: 15) |
| | TuTh 9:30am - 10:45am | CHE 2145 |

**ENAE788X** **Selected Topics in Aerospace Engineering; Planetary Surface Robotics**

| | | |
|---|---|---|
| 0101 | David Akin | Seats (Total: 30) |
| | MW 5:00pm - 6:15pm | EGR 2116 |

**ENAE799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**ENAE898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**ENAE899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# ENBC Biocomputational Engineering Fall 2024

**ENBC301** **Introduction to Biocomputational Engineering**

(Perm req)

*Restriction: Permission of ENGR-Fischell Department of Bioengineering department; and must be in Biocomputational Engineering major.*

*Provides practical tools to help Biocomputational Engineering majors to think critically about their goals and career paths and to utilize their major to set their career trajectory.*

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|---|---|---|
| ESG1 | Sivan Saravanapavan | Seats (Total: 20) |
| | W 1:30pm - 2:20pm | BLD4 4321 |
| | *Restricted to Biocomputational Engineering students at Shady Grove.* | |

**ENBC311** **Python for Data Analysis**

(Perm req)

*Prerequisite: Minimum grade of C- in MATH241; and minimum grade of C- in BIOE241 or approved prior study in Matlab. Restriction: Permission of ENGR-Fischell Department of Bioengineering department; and must be in the Biocomputational Engineering major. Credit only granted for: BIOE489A, BIOE442 or ENBC311.*

*Provides an introduction to structured programming, computational methods, and data analysis techniques with the goal of building a foundation allowing students to confidently address problems in research and industry. Fundamentals of programming, algorithms, and simulation are covered from a general computer science perspective, while the applied data analysis and visualization portion makes use of the Python SciPy stack.*

| | | |
|---|---|---|
| ESG1 | Bahaa Ghammraoui | Seats (Total: 20) |
| | MW 10:00am - 11:15am | BLD4 4321 |
| | *Restricted to Biocomputational Engineering students at Shady Grove.* | |

**ENBC322** **Algorithms**

(Perm req)

*Prerequisite: Minimum grade of C- in ENBC311. Restriction: Permission of ENGR-Fischell Department of Bioengineering department; and must be in the Biocomputational Engineering major. Credit only granted for: ENEB355 or ENBC322.*

*Presents an introduction to the techniques for designing efficient computer algorithms and analyzing their complexity using the Python programming language. Students will gain insight into principles and data-structures useful in algorithm design. General topics include asymptotics, sorting and searching, hashing, algorithm design techniques, graph algorithms, and dynamic programming.*

| | | |
|---|---|---|
| ESG1 | Kyunghun Lee | Seats (Total: 20) |
| | W 5:00pm - 7:30pm | BLD4 4321 |
| | *Restricted to Biocomputational Engineering students at Shady Grove.* | |

**ENBC331** **Applied Linear Systems and Differential Equations**

(Perm req)

*Prerequisite: Minimum grade of C- in MATH246; and minimum grade of C- in BIOE241 or approved prior study in Matlab. Restriction: Permission of ENGR-Fischell Department of Bioengineering department; and must be in the Biocomputational Engineering major. Credit only granted for: BIOE371 or ENBC331.*

*Applications of linear algebra and differential equations to bioengineering and biomolecular systems. Designed to instruct students to relate mathematical approaches in bioengineering to their physical systems. Examples will emphasize fluid mechanics, mass transfer, and physiological systems.*

| | | |
|---|---|---|
| ESG1 | Lan Ma | Seats (Total: 20) |
| | TuTh 10:30am - 11:45am | BLD4 2322 |
| | *Restricted to Biocomputational Engineering students at Shady Grove.* | |

**ENBC332** **Statistics, Data Analysis, and Data Visualization**

(Perm req)

*Prerequisite: Minimum grade of C- in MATH246; and minimum grade of C- in BIOE241 or approved prior study in Matlab. Restriction: Permission of ENGR-Fischell Department of Bioengineering department; and must be in the Biocomputational Engineering major. Credit only granted for: BIOE372, ENBC332 or STAT464.*

*Instructs students in the fundamentals of probability and statistics through examples in biological phenomenon and clinical data analysis. Data visualization strategies will also be covered.*

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|---|---|---|
| ESG1 | Jamasp Azarnoosh | Seats (Total: 20) |
| | MW 12:00pm - 1:15pm | BLD4 4321 |
| | *Restricted to Biocomputational Engineering students at Shady Grove.* | |

**ENBC341** **Biomolecular Engineering Thermodynamics**

(Perm req)

*Prerequisite: Minimum grade of C- in MATH246 and PHYS260. Restriction: Permission of ENGR-Fischell Department of Bioengineering department; and must be in the Biocomputational Engineering major. Credit only granted for: BIOE232, ENBC341 or CHBE301.*

*A quantitative introduction to thermodynamic analysis of biomolecular systems. The basic laws of thermodynamics will be introduced and explained through a series of examples related to biomolecular systems.*

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|---|---|---|
| ESG1 | Jarred Callura | Seats (Total: 20) |
| | TuTh 2:30pm - 3:45pm | BLD4 3335 |
| | *Restricted to Biocomputational Engineering students at Shady Grove.* | |

**ENBC353** **Synthetic Biology**

(Perm req)

*Prerequisite: Minimum grade of C- in BSCI170 or BIOE120. Restriction: Permission of ENGR-Fischell Department of Bioengineering department; and must be in the Biocomputational Engineering major. Credit only granted for: BIOE461 or ENBC353.*

*Introduces students to the scientific foundation and concepts driving the fast-paced field of synthetic biology. This course aims to apply engineering principles, measurement science, and modern molecular biology to increase understanding of complex biological systems and to develop novel applications that address global challenges in health, manufacturing, energy, agriculture, and the environment. Students will explore the principles and applications of the field via in-depth analysis. The course will also address the societal issues of synthetic biology, and briefly examine interests to regulate research in this area.*

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|---|---|---|
| ESG1 | Jarred Callura | Seats (Total: 20) |
| | TuTh 12:30pm - 1:45pm | BLD4 3335 |
| | *Restricted to Biocomputational Engineering students at Shady Grove.* | |

**ENBC423** **Applied Computer Vision**

(Perm req)

*Prerequisite: Minimum grade of C- in ENBC311 and ENBC312.*

*Introduction to the basics and modern deep learning models in the Artificial Intelligence field of computer vision. The course emphasizes applications of computer vision in medical imaging. Computer vision techniques will be demonstrated using software packages implementing bioimage informatics methods.*

| | | |
|---|---|---|
| ESG1 | Joe Chalfoun | Seats (Total: 20) |
| | TuTh 9:00am - 10:15am | BLD4 2335 |
| | *Restricted to Biocomputational Engineering students at Shady Grove.* | |

**ENBC425** **Imaging and Image Processing**

*Prerequisite: Minimum grade of C- in ENBC332, ENBC311, and ENBC321. Restriction: Permission of ENGR-Fischell Department of Bioengineering department; and must be in Biocomputational Engineering major.*

*Instructs students in the fundamentals of biomedical imaging and image processing methods through the physical principles behind major medical imaging modalities, including X-Ray, Computed Tomography (CT), and magnetic resonance imaging (MRI). This course is designed to instruct students in mathematical tools for extracting information from images. There will be real-world assignments and images, which aid in learning complex theories, applications, and coding libraries in a simple way.*

| | | |
|---|---|---|
| ESG1 | Bahaa Ghammraoui | Seats (Total: 20) |
| | MW 2:30pm - 3:45pm | BLD4 4321 |
| | *Restricted to Biocomputational Engineering students at Shady Grove.* | |

**ENBC431** **Finite Element Analysis**

(Perm req)

*Prerequisite: Minimum grade of C- in MATH246. Restriction: Permission of ENGR-Fischell Department of Bioengineering department; and must be in the Biocomputational Engineering major.*

*An introduction to the theory, programming and application of the finite element method that is used to solve problems in engineering analysis and design. Modeling, analysis, and design using the FEA software SolidWorks. The objective of the course is to teach the fundamentals of the finite element method with emphasis on the underlying theory, assumption, and modeling issues as well as providing hands-on experience using finite element software to model, analyze, and design systems.*

| | | |
|---|---|---|
| ESG1 | Lan Ma | Seats (Total: 20) |
| | MW 11:45am - 1:00pm | BLD4 2335 |
| | *Restricted to Biocomputational Engineering students at Shady Grove.* | |

# ENCE Engineering, Civil Fall 2024

**ENCE100** **Introduction to Civil and Environmental Engineering**

*An overview of the department of Civil and Environment Engineering. Students are introduced to the undergraduate curriculum and will be exposed to other undergraduate and graduate students at various points in their program. The course blends panel presentations by seniors and graduate students, faculty and practitioners with a project and book review to be performed by the students.*

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|---|---|---|
| 0101 | Natasha Almeida e Andrade<br>W 1:00pm - 1:50pm | Seats (Total: 110)<br>CHE 2110 |

**ENCE200** **Civil Engineering Graphics for Design and Construction**

(Perm req)

*Prerequisite: ENES100, MATH141, and ENES102; and permission of ENGR-Civil & Environmental Engineering department.*

*Introduction to the basic principles and fundamentals of civil design, plan interpretation, and plan creation. Development of the knowledge and skills to analyze existing sites, environmental features, and characteristics used to develop a site properly. Introduction of the use of Computer-Aided Drafting (CAD) software in the context of civil and environmental engineering design and applications.*

| | | |
|---|---|---|
| 0101 | Frank White<br>MW 2:00pm - 3:15pm | Seats (Total: 40)<br>EGR 1156 |
| 0201 | Frank White<br>MW 3:30pm - 4:45pm | Seats (Total: 40)<br>EGR 1156 |

**ENCE201** **Engineering Information Processing**

(Perm req)

*Prerequisite: ENES220 and MATH241; and permission of ENGR-Civil & Environmental Engineering department. Corequisite: MATH246. Credit only granted for: ENCE201 or ENCE203.*

*Exploration of algorithms for solving problems in several important areas of numerical computing: roots of equations; matrix algebra and the systems of linear equations; function approximation, numerical differentiation and integration; and ordinary differential equations. Issues of solution accuracy, robustness, and efficiency are also considered. Numerical techniques are presented in the context of engineering applications, and example problems are solved using a variety of computer-based tools (primarily MATLAB).*

| | | |
|---|---|---|
| 0101 | Mark Austin<br>MWF 2:00pm - 2:50pm | Seats (Total: 55)<br>KEB 1110 |

**ENCE205** **Biology for Civil and Environmental Engineers**

*Prerequisite: MATH140 or equivalent. Restriction: Must be in the Civil Engineering program; or permission of the Civil and Environmental Engineering Department. Credit only granted for: BIOE120 or ENCE205.*

*Introduction to the functions and interactions of biological systems in civil and environmental engineering systems in the context of societal issues. The course includes an introduction to biotechnological principles from a quantitative perspective, modern experimental techniques in biotechnology and methods of data analysis. Roles for civil and environmental engineers in society seen from a biotechnological perspective, and the role of biotechnology in civil and environmental engineering will be elucidated. The role of biotechnology in other engineering disciplines will also be discussed.*

| | | | |
|---|---|---|---|
| 0101 | Birthe Kjellerup Shirtliff<br>Tu 2:00pm - 3:40pm<br>M 9:00am - 12:00pm | Seats (Total: 10)<br>HBK 0108<br>EGR 0136 | <br><br>Lab |
| 0102 | Birthe Kjellerup Shirtliff<br>Tu 2:00pm - 3:40pm<br>M 3:00pm - 6:00pm | Seats (Total: 10)<br>HBK 0108<br>EGR 0136 | <br><br>Lab |

**ENCE215** **Engineering for Sustainability**

(Perm req)

*Prerequisite: CHEM135; or students who have taken courses with comparable content may contact the department; and permission of ENGR-Civil & Environmental Engineering Department.*

*Engineers have a key role to play in planning, designing, building, and ensuring a sustainable future. In this class, a problem-based approach is used to examine fundamentally-based analyses and approaches for engineering as sustainable society, with a focus on sustainable use of energy and materials, sustainable infrastructure solutions, atmospheric sustainability and sustainable water supply, and human population growth and resource consumption and its implications for sustainability.*

| | | |
|---|---|---|
| 0101 | Natasha Almeida e Andrade<br>TuTh 8:00am - 9:15am | Seats (Total: 36)<br>AJC 2119 |
| 0201 | Natasha Almeida e Andrade<br>TuTh 9:30am - 10:45am | Seats (Total: 36)<br>ESJ 1309 |

**ENCE300** **Fundamentals of Engineering Materials**

(Perm req)

*Prerequisite: ENES220; and permission of ENGR-Civil & Environmental Engineering department.*

*Behavior, physical, mechanical and chemical properties, design and performance of civil engineering materials, including aggregates, cement, concrete, asphalt binders and mixtures, plastics and geosynthetics, timber, metals and alloys. Modified and advanced highway materials (polymer and rubber modified mixtures, high performance concrete, composites, smart materials). Laboratory testing with hands-on experience on aggregates, Portland cement concrete, asphalt mixtures, timber and metals as per SUPERAVE, ACI design methods, and ASTM standards and specifications.*

Restricted to students in the College of Engineering.

| | | | |
|---|---|---|---|
| 0101 | Dimitrios Goulias<br>Tu 12:30pm - 2:30pm<br>Th 10:30am - 12:30pm | Seats (Total: 18)<br>MCB 1207<br>EGL 0120 | <br><br>Lab |
| 0102 | Dimitrios Goulias<br>Tu 12:30pm - 2:30pm<br>Th 12:30pm - 2:30pm | Seats (Total: 18)<br>MCB 1207<br>EGL 0120 | <br><br>Lab |
| 0103 | Dimitrios Goulias<br>Tu 12:30pm - 2:30pm<br>Th 2:30pm - 4:30pm | Seats (Total: 18)<br>MCB 1207<br>EGL 0120 | <br><br>Lab |

**ENCE302** **Probability and Statistics for Civil and Environmental Engineers**

(Perm req)

*Prerequisite: MATH246 and ENCE201; and permission of ENGR-Civil & Environmental Engineering department.*

*Statistics is the science of data. Civil Engineers must often make decisions based on incomplete, variable or uncertain information. In addition, modern methods of design and analysis need to account for variability in natural, engineered and human systems. After successful completion of this class, a student should have facility and familiarity with established basic techniques for managing data, modeling variability and uncertainty, communicating about data and decisions, and supporting or defending a decision or judgment based on uncertain or incomplete data.*

Restricted to students in the College of Engineering.

| | | | |
|---|---|---|---|
| 0101 | Allison Reilly<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 40)<br>EGR 0135<br>KEB 2107 | |
| 0201 | Allison Reilly<br>MW 2:00pm - 2:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 40)<br>CHM 2201<br>KEB 2107 | |

**ENCE305** **Fundamentals of Engineering Fluids**

(Perm req)

*Prerequisite: ENES220, PHYS260, and PHYS261; and permission of ENGR-Civil & Environmental Engineering department. Credit only granted for: BIOE331, ENCE305, ENFP300, or ENME331.*

*The theoretical bases for fluid statics and dynamics, including the conservation of mass, energy and momentum. Modeling of hydraulic systems are introduced. Emphasis on pipe flow and open-channel hydraulics, with real-world applications.*

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|---|---|---|
| 0101 | Michael Galczynski<br>MWF 11:00am - 11:50am | Seats (Total: 35)<br>AJC 2121 |
| 0102 | Kaye Brubaker<br>MWF 10:00am - 10:50am | Seats (Total: 35)<br>EGR 3106 |

**ENCE310** **Introduction to Environmental Engineering**

(Perm req)

*Prerequisite: PHYS260 and ENCE215; and permission of ENGR-Civil & Environmental Engineering department.*

*Introduction to the physical, chemical and biological systems relating to the quality of water, land and air environments. Fundamental principles will be emphasized, current environmental pollution problems will be examined and methods of pollution abatement discussed.*

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|---|---|---|
| 0101 | Guangbin Li<br>TuTh 8:00am - 9:15am | Seats (Total: 30)<br>EGR 2116 |

**ENCE320** **Introduction to Project Management**

(Perm req)

*Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A James Clark School of Engineering. Credit only granted for: BMGT485, ENCE320, ENCE325, INST408O or INST453.*

*Principles and techniques of managing engineering projects from the initiation, through planning, execution, monitoring & control, then finally closeout.*

Restricted to students in the College of Engineering.

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|---|---|---|
| 0101 | John Johnson<br>Th 5:00pm - 7:30pm | Seats (Total: 75)<br>CSI 2117 |

**ENCE325** **Introduction to Construction Project Management**

(Perm req)

*Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in a major in ARCH-School of Architecture, Planning, & Preservation; or must be in the Construction Project Management minor. And permission of ENGR-Civil & Environmental Engineering department. Credit only granted for: BMGT485, ENCE320, ENCE325, INST408O or INST453.*

*Learn the basic topics in sourcing, planning, financing, designing, contracting, constructing and operating buildings and other facilities in the built infrastructure. Topics include construction economics, design constructability reviews, construction process planning, contracts and procurement strategies, project scheduling and resource utilization, site layout planning, project cost and quality controls, temporary structures, environmental sustainability, project handover procedures, facility operation and management, IT-based tools for construction project and resource management.*

| | | |
|---|---|---|
| 0101 | Miroslaw Skibniewski<br>Th 5:00pm - 7:30pm | Seats (Total: 55)<br>KEB 1110 |

**ENCE340** **Fundamentals of Geotechnical Engineering**

(Perm req)

*Prerequisite: ENES220; and permission of ENGR-Civil & Environmental Engineering department.*

*Introductory study of soils in civil engineering. Soil origin, phase relationships and classification schemes. Soil hydraulics: capillary, effective stress, permeability and seepage considerations. Basic stress distribution theories and soil consolidation-settlement analysis. Integration of shear strength evaluation with slope stability analysis. If time permits, topics such as applications in geoenvironmental engineering will be covered.*

| | | |
|---|---|---|
| 0101 | Ahmet Aydilek<br>TuTh 9:30am - 10:45am | Seats (Total: 57)<br>CSI 2117 |

**ENCE353** **Introduction to Structural Analysis**

(Perm req)

*Prerequisite: Permission of ENGR-Civil & Environmental Engineering department; and (MATH246 and ENES220).*

*The basic tools of structural analysis and design. Design loads. Equilibrium of external and internal forces. Shear and moment diagrams in beams and frames. Truss analysis. Influence line diagrams. The slope-deflection method and method of consistent deformation. Matrix stiffness methods for beams, frames and trusses.*

Restricted to students in the College of Engineering.

| | | |
|---|---|---|
| 0101 | Mark Austin<br>MWF 9:00am - 9:50am | Seats (Total: 60)<br>KEB 1110 |

**ENCE360** **Analysis of Civil Engineering Systems**

(Perm req)

*Prerequisite: ENCE201 and MATH140; and permission of ENGR-Civil & Environmental Engineering department.*

*Introduction to systems approach and systems analysis in civil and environmental engineering. Introduction to systems analysis tools that facilitate engineering management decision making including optimization and computer simulation. Introduction to linear and nonlinear mathematical optimization including linear and integer programming, elementary nonlinear programming and dynamic programming.*

| | | |
|---|---|---|
| 0101 | Ali Haghani<br>TuTh 9:30am - 10:45am | Seats (Total: 36)<br>EGR 1156 |
| 0102 | Ali Haghani<br>TuTh 11:00am - 12:15pm | Seats (Total: 36)<br>EGR 1156 |

**ENCE370** **Introduction to Transportation Engineering and Planning**

(Perm req)

*Prerequisite: ENCE201, PHYS260, and PHYS261; and permission of ENGR-Civil & Environmental Engineering department.*

*Engineering problems of transportation by highways, airways, pipelines, waterways, and railways. Transportation modes and technologies, vehicle dynamics, basic facility design, traffic stream models, capacity analysis, transportation planning, evaluation and choice, and network analysis.*

Restricted to students in the College of Engineering.

| | | |
|---|---|---|
| 0101 | Cinzia Cirillo<br>MWF 1:00pm - 1:50pm | Seats (Total: 60)<br>KEB 1110 |

**ENCE411** **Environmental Engineering Science**

(Perm req)

*Prerequisite: ENCE205 and ENCE310; and permission of ENGR-Civil & Environmental Engineering department.*

*Introduces the analytical techniques available to assess performance of engineering processes as they relate to water, soil, and air treatment and quality. The basic principles of environmental management, economics of waste treatment, by-product reutilization, and energy cycles are introduced and discussed. Alternative technologies are introduced and evaluated mostly by assessing their potential to reduce waste, minimize energy use, and promote sustainability. Students' activities include, a weekly lab to provide hands-on experience with environmental quality measurements and treatment techniques; on-site visits to regional industries that undertake sustainable practices; and a final research project where experimental design and laboratory techniques are used to assess interactions between technologies and natural systems and their potential for reducing environmental impacts.*

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|---|---|---|---|
| 0101 | Alba Torrents Capdevila<br>TuTh 11:00am - 11:50am<br>W 10:00am - 1:00pm | Seats (Total: 12)<br>EGR 2154<br>EGR 0136 | <br><br>Lab |
| 0102 | Alba Torrents Capdevila<br>TuTh 11:00am - 11:50am<br>W 2:00pm - 5:00pm | Seats (Total: 12)<br>EGR 2154<br>EGR 0136 | <br><br>Lab |

**ENCE422** **Project Cost Accounting and Economics**

(Perm req)

*Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.*

*Learn: the fundamentals of accounting; project cost accounting principles as they apply to project management; project cost accounting; and the fundamentals of engineering economics.Topics include: project feasibility analysis; reading and analyzing financial statements; cash management; cash flow analysis; depreciation and taxes; and impact on profitability; the principles of activity based costing; net present value analysis; the framework for project performance measurement, cost performance indices, and earned value analysis.*

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|---|---|---|---|
| 0101 | Qingbin Cui<br>M 5:00pm - 7:30pm | Seats (Total: 60)<br>ANS 0408 | |

**ENCE423** **Project Planning, Estimating & Scheduling**

(Perm req)

*Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor. And permission of ENGR-Civil & Environmental Engineering department.*

*Learn the fundamentals of project planning, estimating, and scheduling. Understand the concepts of planning; to reduce uncertainty, improve efficiency of the operation, to set and meet objectives, and to provide a basis for monitoring and controlling the work. Be introduced to: the concepts of resource definition, assignment and management, and; the basics of project estimating (pricing) methods including global pricing strategies, types of estimates, pricing processes, overhead and profit, and project financing.Learn the basics of project scheduling including; bar charts, network-based methodologies, and linear scheduling techniques. Emphasis is placed on Critical Path Method (CPM) scheduling, a network based methodology. Be exposed to the use of scheduling software and will actually develop a CPM schedule for an actual construction project as part of a semester project.*

Restricted to students in the College of Engineering.

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|---|---|---|---|
| 0101 | Kenneth O'Connell<br>Tu 5:00pm - 7:30pm | Seats (Total: 40)<br>EGR 1108 | |

**ENCE424** **Communication for Project Managers**

(Perm req)

*Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management minor; or must be in the Project Management minor. Jointly offered with: ENCE614. Credit only granted for: ENCE424 or ENCE614.*

*Learn the fundamentals of communications for project managers. Emphasis is on interpersonal and group communications; through voice, electronic, and written messages; project cycle and reports and presentations during this cycle; and communications for employment.*

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|---|---|---|
| 0101 | Shana Webster-Trotman<br>Tu 5:00pm - 7:30pm | Seats (Total: 25)<br>IRB 1207 |

**ENCE426** **Construction Documentation and BIM Applications in Engineering and Construction**

(Perm req)

*Prerequisite: Permission of ENGR-Civil & Environmental Engineering department. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; or must be in the Construction Project Management Minor; or must be in the Project Management Minor.*

*Learn the basics of construction documentation methods, with particular emphasis on Building Information Modeling (BIM). Topics include: the fundamentals of assembly, coordination, and maintenance of construction documents and implementation of BIM techniques in the design and construction processes, and; a review of Autodesk, Revit, and Navisworks and other leading BIM software. Lectures from project management faculty supplemented by guest lecturers from the construction industry.*

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|---|---|---|
| 0101 | Kiley Wilfong Cullen<br>Tu 2:00pm - 4:30pm | Seats (Total: 40)<br>EGR 1156 |
| 0201 | Kiley Wilfong Cullen<br>Tu 5:00pm - 7:30pm | Seats (Total: 40)<br>EGR 1156 |

**ENCE432** **Ground Water Hydrology**

(Perm req)

*Prerequisite: ENCE305; and permission of ENGR-Civil & Environmental Engineering department.*

*Concepts related to the development of the ground water resources, hydrology, hydrodynamics of flow through porous media, hydraulics of wells and basin-wide ground water development. Fundamentals of ground water pollution are introduced.*

Restricted to students in the College of Engineering.

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|---|---|---|
| 0101 | Kaye Brubaker | Seats (Total: 42) |
| | MWF 9:00am - 9:50am | EGR 3106 |

**ENCE433** **Assessment of Natural Hazards for Engineering Applications**

*Prerequisite: ENCE302. Jointly offered with ENCE633. Credit only granted for: ENCE433 or ENCE633.*

*Ensuring the resilience of infrastructure and other engineered systems requires an assessment of the natural hazards to which the systems are exposed. Probabilistic natural hazard assessment evaluates how likely a location is to experience hazard events (e.g., hurricanes or earthquakes) and how likely those events are to cause various impacts (e.g., large surges, intense rainfall, high winds, or ground shaking). This course will review the basic science of natural hazards and provide the foundational concepts of probability and statistics required for developing models to assess the frequency and severity of natural hazards. This course will present methodologies for assessment of multiple types of natural hazards (e.g., seismic, precipitation, riverine, coastal, and wind hazards).*

| | | |
|---|---|---|
| 0101 | Michelle Bensi | Seats (Total: 15) |
| | M 1:00pm - 3:40pm | KEB 2107 |

**ENCE441** **Foundation Design**

(Perm req)

*Prerequisite: ENCE340; and permission of ENGR-Civil & Environmental Engineering department.*

*Critical review of classical lateral earth pressure theories, analysis of retaining walls and reinforced earth walls, subsurface explorations, bearing capacity and settlement of shallow foundations, design of deep foundations that includes both pile foundations and drilled shafts.*

Restricted to students in the College of Engineering.

| | | |
|---|---|---|
| 0101 | Mohamed Aggour | Seats (Total: 70) |
| | TuTh 11:00am - 12:15pm | MCB 1207 |

**ENCE444** **Experimental Methods in Geotechnical Structural Engineering**

(Perm req)

*Prerequisite: ENCE353 and ENCE340; and permission of ENGR-Civil & Environmental Engineering department.*

*In the geotechnical engineering part of the course, major soils testing and their interpretation including classification, compaction, strength, and compressibility will be undertaken. The structural engineering part of this course covers test planning, loading apparatus, instrumentation, data acquisition and data analysis, as well as basic aspects of structural testing techniques and shake-table test.*

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|---|---|---|---|
| 0101 | Yunfeng Zhang, Ahmet Aydilek<br>Tu 12:30pm - 1:30pm<br>W 1:00pm - 4:00pm | Seats (Total: 12)<br>SPH 0301<br>EGL 0120 | <br><br>Lab |
| 0201 | Ahmet Aydilek, Yunfeng Zhang<br>Tu 12:30pm - 1:30pm<br>W 1:00pm - 4:00pm | Seats (Total: 12)<br>HBK 0108<br>EGL 0106 | <br><br>Lab |

**ENCE454** **Design of Concrete Structures**

(Perm req)

*Prerequisite: ENCE353; and permission of ENGR-Civil & Environmental Engineering department. Formerly: ENCE451.*

*Combined bending and compression, development and anchorage of reinforcement, deflections, design of slabs including one-way and two-way, design of footings, retaining walls, introduction to prestressed concrete, design of multi-story buildings.*

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|---|---|---|
| 0101 | Peter Chang<br>MWF 11:00am - 11:50am | Seats (Total: 25)<br>EGR 3114 |
| 0201 | Peter Chang<br>MWF 10:00am - 10:50am | Seats (Total: 30)<br>JMP 1109 |

**ENCE465** **Civil and Environmental Engineering Design I**

*Prerequisite: ENCE201 and ENCE215. Restriction: Permission of the ENGR-Civil & Environmental Engineering Department.*

*Provides students an opportunity to develop their skills in project scoping and the development of design proposals. The fundamental concepts are taught using analytical and computational methods, which are necessary for designing and analyzing the sustainability of various engineering processes and technologies. The course provides the methods and skills for understanding the human-environment-infrastructure interactions needed to develop a design proposal.*

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|---|---|---|
| 0101 | Deb Niemeier<br>Th 12:30pm - 1:20pm | Seats (Total: 120)<br>EGR 1202 |

**ENCE470** **Highway Engineering**

(Perm req)

*Prerequisite: ENCE302 and ENCE370; and permission of ENGR-Civil & Environmental Engineering department.*

*Highway location and design, highway engineering economics, traffic engineering, traffic measurement devices and technologies. Includes discussion of technological advances in traffic flow and capacity, such as signal systems, corridor control, automatic driver information, incident detection and autonomous vehicle operation.*

Restricted to students in the College of Engineering.

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|---|---|---|
| 0101 | Shiaau-Lir Wang | Seats (Total: 40) |
| | MWF 10:00am - 10:50am | EGR 0135 |

**ENCE489** **Special Problems in Civil Engineering**

*A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.*

**Contact department for information to register for this course.**

**ENCE489L** **Special Problems in Civil Engineering; Risk Analysis in Engineering and Economics**

*A course arranged to meet the needs of exceptionally well prepared students for study in a particular field of civil engineering.*

Cross-listed with ENCE620, ENRE648M, and ENSE698R. Credit only granted for ENCE489L, ENCE620, ENRE648M, or ENSE698R.

| | | |
|---|---|---|
| 0101 | Bilal Ayyub | Seats (Total: 20) |
| | W 2:00pm - 4:40pm | JMP 1109 |

**ENCE602** **Project Procurement Management**

*Fundamental concepts and techniques for project acquisition and procurement are presented. Students are introduced to the PMBOK Guide six-step procurement process and expected to develop an in-depth understanding of project evaluation, planning, financing, contracting, negotiation, and procurement execution. It will also cover emerging methods, principles, and practices in infrastructure project procurement, including Public-Private Partnerships, Carbon project procurement, and Clean Development Mechanism.*

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|---|---|---|
| 0101 | Qingbin Cui | Seats (Total: 17) |
| | M 1:00pm - 3:40pm | JMP 2120 |

**ENCE607** **Mastering Agile Project Management**

*Learn how and why Agile project management is the fastest growing and most successful project management philosophy today. Learn the mechanics of how to design and facilitate projects using pure Agile Scrum and Lean Kanban techniques; The tradeoffs of using hybrid techniques such as Lean Startup, Scaled Agile for the Enterprise, and Disciplined Agile Development. Then go beyond these frameworks to the science beneath with the essential principles to ensure you get the best benefits of Agile project management methods.*

| | | |
|---|---|---|
| 0101 | John Johnson<br>Tu 5:00pm - 7:40pm | Seats (Total: 25)<br>ESJ 0215 |
| PM01 | John Johnson<br>Tu 5:00pm - 7:40pm | Seats (Total: 25)<br>ONLINE |

**ENCE613** **Structural Dynamics**

*Formerly: ENCE653.*

*Analysis of the dynamic response of structrues and structural components subjected to impact load, transient load, and ground excitations; study of single degree-of-freedom and multi degree-of-freedom systems in classical closed form solution and approximate numerical solution; solution in the frequency domain and the use of finite element method.*

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|---|---|---|
| 0101 | Yunfeng Zhang<br>W 5:00pm - 7:30pm | Seats (Total: 25)<br>EGR 1102 |

**ENCE614** **Communications for Project Managers**

(Perm req)

*Restriction: Must be enrolled in the A. James Clark School of Engineering or the School of Architecture. Jointly offered with: ENCE424. Credit only granted for: ENCE424 or ENCE614.*

*Learn the fundamentals of communications for project managers. Emphasis is on interpersonal and group communications; through voice, electronic, and written messages; project cycle and reports and presentations during this cycle; and communications for employment.*

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|---|---|---|
| 0101 | Shana Webster-Trotman<br>Tu 5:00pm - 7:30pm | Seats (Total: 5)<br>IRB 1207 |

**ENCE620** **Risk Analysis in Engineering and Economics**

*Prerequisite: ENCE302. Credit only granted for: ENCE489L, ENCE620, ENRE648M, or ENSE698R.*

*Covers quantitative risk analysis and management using probability theory and statistics starting with system definition, hazard and scenario identification, likelihood estimation and consequence assessment, and finishes with economic valuation and microeconomics for informing decision making. It covers the topics: uncertainty, risk, knowledge and ignorance related definitions; natural and anthropogenic hazards and fundamental risk methods; system abstraction and associated complexities; analytical and empirical reliability and resilience estimation for components and systems; consequence, severity and loss analysis and accumulation including property and life; economic valuation; risk-cost-benefit tradeoffs and analysis; microeconomics and socioeconomics in risk analysis for informing decisions; risk management, acceptance, tolerance and finance; data needs and sources; expert-opinion elicitation; applications in engineering, sciences and economics.*

Cross-listed with ENCE489L, ENRE648M, and ENSE698R. Credit only granted for ENCE489L, ENCE620, ENRE648M, or ENSE698R.

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|---|---|---|
| 0101 | Bilal Ayyub | Seats (Total: 20) |
| | W 2:00pm - 4:40pm | JMP 1109 |

**ENCE622** **Construction Automation & Robotics**

*Covers advanced technologies leading to redesign and partial or full automation of selected construction processes utilizing industrial robotics. Lectures and presentations will cover topics such as basic robotic technology (robot kinematics and dynamics, industrial manipulators, mobility bases, end effectors, sensors, control systems, and robot task programming), design of automated construction processes, selection of means and methods for automated construction processes, robot ergonomics and safety, calculation of costs and benefits of construction robots in selected applications, engineering and economic feasibility of automation and robotics in the construction industry.*

| | | |
|---|---|---|
| PM01 | Miroslaw Skibniewski | Seats (Total: 25) |
| | Class time/details on ELMs | ONLINE |
| | *Weekly video conference: TBA.* | |

**ENCE627** **Project Risk Management**

*Restriction: Must not have completed ENCE627.*

*Introduction to identifying, analyzing, assessing, and managing risks inherent to engineering projects. Includes: probability modeling, choice and value theory, schedule and cost risk, risk mitigation and transfer, and contract considerations of project risk. Examples are drawn from construction, software development, systems integration, and other large engineering projects; and cover probability basics, subjective probability, statistical data analysis, introduction to decision theory, Monte Carlo simulation, value of information, and risk-based decision making.*

| | | |
|---|---|---|
| PM01 | Gregory Baecher | Seats (Total: 40) |
| | Class time/details on ELMs | ONLINE |
| | *Weekly video conferences: Thursday 7:00am-8:00am or by arrangement with the instructor.* | |

**ENCE633** **Assessment of Natural Hazards for Engineering Applications**

*Prerequisite: ENCE302. Jointly offered with: ENCE433. Credit only granted for: ENCE633 or ENCE433.*

*Ensuring the resilience of infrastructure and other engineered systems requires an assessment of the natural hazards to which the systems are exposed. Probabilistic natural hazard assessment evaluates how likely a location is to experience hazard events (e.g., hurricanes or earthquakes) and how likely those events are to cause various impacts (e.g., large surges, intense rainfall, high winds, or ground shaking). This course will review the basic science of natural hazards and provide the foundational concepts of probability and statistics required for developing models to assess the frequency and severity of natural hazards. This course will present methodologies for assessment of multiple types of natural hazards (e.g., seismic, precipitation, riverine, coastal, and wind hazards).*

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|---|---|---|
| 0101 | Michelle Bensi<br>M 1:00pm - 3:40pm | Seats (Total: 15)<br>KEB 2107 |

**ENCE640** **Advanced Soil Mechanics**

*Prerequisite: ENCE340; or students who have taken courses with comparable content may contact the department.*

*Introduction to the use of elastic theory in stress and displacement solutions to geotechnical engineering (soil and rock mechanics). The effect of soil moisture (at rest) relative to effective stress principles, capillary and frost. Exact and numeric techniques for the analysis for soil seepage under isotropic and anisotropic conditions. Classical settlement (consolidation) and compressiblility theories, including finite difference solution for vertical and radial drainage.*

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|---|---|---|
| 0101 | Jongwan Eun<br>Th 5:00pm - 7:30pm | Seats (Total: 25)<br>EGR 1102 |

**ENCE650** **Process Dynamics in Environmental Systems**

*Formerly: ENCE636.*

*The fundamentals of heterogeneous equilibria, rates of environmental reactions, and flow and material transport or presented. Applications of these principles will be presented to small and large scale environmental problems involving liquid, gas, and solid phases. Both natural and engineered environmental systems will be examined.*

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|---|---|---|
| 0101 | Allen Davis<br>TuTh 9:30am - 10:45am | Seats (Total: 20)<br>EGR 0135 |

**ENCE651** **Chemistry of Natural Waters**

*Credit only granted for: ENCE633 or ENCE651. Formerly: ENCE633.*

*Application of principles from chemical thermodynamics and kinetics to the study and interpretation of the chemical composition of natural waters is rationalized by considering metal ion solubility controls, pH, carbonate equilibria, adsorption reactions, redox reactions and the kinetics of oxygenation reactions which occur in natural water environments.*

Cross-listed with MEES698W. Credit only granted for ENCE651 or MEES698W.

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|---|---|---|
| 0101 | Alba Torrents Capdevila<br>TuTh 8:00am - 9:15am | Seats (Total: 20)<br>EGR 0135 |

**ENCE652** **Microbiological Principles of Environmental Engineering**

*Credit only granted for: ENCE637 or ENCE652. Formerly: ENCE637.*

*An examination of microbiological principles directly affecting humans and the surrounding environment. Special emphasis is given to the understanding of microbial physiology and in environmental engineering related to water and land systems including aerobic and anaerobic treatment processes involved in nutrient/waste recycling as well as impact of xenobiotic compounds on processes water, soil and sediment.*

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|---|---|---|
| 0101 | Guangbin Li<br>TuTh 11:00am - 12:15pm | Seats (Total: 20)<br>PLS 1113 |

**ENCE662** **Introduction to Project Management**

*Introduction to project management including: overview and concepts of project management (principles, body of knowledge, strategies); planning successful projects (defining, specifying, delivery options, scheduling, budgeting); implementing (organizing the team, work assignments, team building, effective leadership); executing (performance measurement, maintaining the schedule, adjustments/mid-course corrections, record keeping, status reporting, communications, managing conflict, time management); and closeout(performance measurement, maintaining the schedule, adjustments/mid-course corrections, record keeping, status reporting, communications, managing conflict, time management).*

| | | |
|---|---|---|
| 0101 | John Johnson<br>W 5:00pm - 7:40pm | Seats (Total: 36)<br>ANS 0402 |
| PM01 | John Johnson<br>W 5:00pm - 7:40pm | Seats (Total: 24)<br>ONLINE |

**ENCE664** **Legal Aspects of Engineering Design and Construction**

*Examines ways in which the legal system affects the design and construction process. Focuses on contract types and the relationships between the parties in different delivery systems. Covers basics of procurement protocols along with negotiating techniques and strategies. Topics include contract law, the relationships between the parties, tort and negligence law, and the statutory principles affecting construction.*

Weekly video conference after 7:50 p.m.

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|---|---|---|
| 0101 | Mark Groff<br>M 4:00pm - 6:40pm | Seats (Total: 10)<br>JMP 2121 |

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|---|---|---|
| PM01 | Mark Groff, Thomas Powell, Thomas Barham<br>M 4:00pm - 6:40pm<br>*Click here for more course information.* | Seats (Total: 30)<br>ONLINE |

**ENCE666** **Cost Engineering and Control**

*Analytical techniques to estimate and control project costs, including site investigation, quantity takeoff, work analysis, and bid preparation. Systematic cost control as related to job production and historical data. Includes the fundamentals of different types of cost estimating, the appropriate use of each, and examination of popular software. This course is designed to help students develop the ability to utilize techniques of cost estimating, cost and schedule control and project management as they apply to engineering and construction work. Students will understand why it is crucial to understand the various types of cost estimating and the appropriate use of each, activity-based costing, conceptual estimating and budgeting, unit cost estimating, parametric estimating, detailed estimating, learning curves and progress functions.*

| | | |
|---|---|---|
| PM01 | Neil Schulman<br>Class time/details on ELMs<br>*Weekly video conferences: Tuesday 1:00-3:40pm.* | Seats (Total: 30)<br>ONLINE |

**ENCE670** **Highway Traffic Characteristics and Measurements**

*The study of the fundamental traits and behavior patterns of road users and their vehicles in traffic. The basic characteristics of the pedestrian, the driver, the vehicle, traffic volume and speed, stream flow and intersection operation, parking, and accidents.*

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|---|---|---|
| 0101 | Gang-Len Chang<br>Th 5:00pm - 7:45pm | Seats (Total: 29)<br>MTH 0302 |

**ENCE672** **Regional Transportation Planning**

*Factors involved and the components of the process for planning statewide and regional transportation systems, encompassing all modes. Transportation planning studies, statewide traffic models, investment models, programming and scheduling.*

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|---|---|---|
| 0101 | Paul Schonfeld<br>Tu 4:00pm - 6:45pm | Seats (Total: 29)<br>EGR 2116 |

**ENCE688B** **Advanced Topics in Civil Engineering; Probability Graphical Models**

*Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.*

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| 0101 | Nii O Attoh-Okine<br>W 5:00pm - 7:30pm | Seats (Total: 12)<br>EGR 3111 |

**ENCE688I** **Advanced Topics in Civil Engineering; Discrete Choice Analysis**

*Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.*

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|---|---|---|
| 0101 | Cinzia Cirillo | Seats (Total: 20) |
| | W 10:00am - 12:30pm | EGR 3102 |

**ENCE688O** **Advanced Topics in Civil Engineering**

*Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.*

**Contact department for information to register for this course.**

**ENCE688T** **Advanced Topics in Civil Engineering; Disaster Resilience Seminar**

*Advanced topics selected by the faculty from the current literature of civil engineering to suit the needs and background of students. May be taken for repeated credit when identified by topic title.*

This seminar with address varied topics in identifying, analyzing, assessing, and managing engineered systems resilient to natural, anthropogenic, and other hazards. This seminar series comprises guest lectures and internal faculty and student presentations on topics related to disaster resilience. Examples are drawn from foundational concepts; hazard science; planning, engineering, and design; risk and resilience assessment; and implementation.

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|---|---|---|
| 0101 | Michelle Bensi | Seats (Total: 25) |
| | W 9:00am - 9:50am | EGR 1102 |

**ENCE689** **Seminar**

Majors only. Other majors require permission of department.

**Contact department for information to register for this course.**

**ENCE799** **Master's Thesis Research**

Majors only. Other majors require permission of department.

**Contact department for information to register for this course.**

**ENCE898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**ENCE899** **Doctoral Dissertation Research**

(Perm req)

Majors only. Other majors require permission of department.

**Contact department for information to register for this course.**

# ENCO Engineering, Cooperative Education Fall 2024

**ENCO099** **Co-Op/Intern Work Experience**

(Perm req)

*Participation in a cooperative education (co-op) or internship program enables students to apply the theories that they have learned in their traditional classes with paid, supervised, career-related work experience that develops technical and professional work skills. Contact the Engineering Co-op & Career Services Office.*

If dropping course, see Withdrawal and Refund of Fees - Special Refund Deadlines in the Financial Information section of the Schedule of Classes.

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|---|---|---|
| 0101 | Lizzy Solovey, Veronica Perrigan | Seats (Total: 200) |
| | Contact instructor or department for details. | |

# ENEB Cyber-Physical Systems Engineering Fall 2024

**ENEB302 Analog Circuits**

(Perm req)

*Prerequisite: Minimum grade of C- in PHYS260 and PHYS261; and 1 course with a minimum grade of C- from (MATH246, MATH241, MATH240); and permission from the Cyber-Physical Systems Engineering program required. Restriction: Must be in the Cyber-Physical Systems Engineering program.*

*Foundations of circuits, focusing on applications including signal amplification, power amplification, instrumentation and filters. Fundamental concepts of analog circuits including analysis methods in time and complex domains, with emphasis on circuit topologies relevant in embedded systems. Intensive application of simulations and hands-on laboratory exercises.*

| | | | |
|---|---|---|---|
| ESG1 | Wesley Lawson | Seats (Total: 20) | |
| | M 10:00am - 12:30pm | BLD4 5321 | |
| | Th 1:45pm - 4:35pm | BLD4 5202 | Lab |
| | *Restricted to students in the Cyber-Physical Systems Engineering Program at USG.* | | |

**ENEB340 Intermediate Programming Concepts and Applications for Embedded Systems**

(Perm req)

*Prerequisite: Completion of approved introductory programming course with a minimum grade of a "C-"; and permission of the Cyber-Physical Systems Engineering program required. Restriction: Must be in the Cyber-Physical Systems Engineering program.*

*Principles of programming for embedded systems development. Includes principles of software development in Unix, C and other high level languages, input/output, data types and variables, operators and expressions, program selection, repetition, functions, arrays, strings, introduction to algorithms, software projects, debugging, documentation. Includes hands-on applications in microprocessor environments.*

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|---|---|---|---|
| ESG1 | Nestor Michael Tiglao | Seats (Total: 20) | |
| | W 9:30am - 11:10am | BLD4 5321 | |
| | Th 10:00am - 12:50pm | BLD4 3202 | Lab |
| | *Restricted to students in the Cyber-Physical Systems Engineering Program at USG.* | | |

**ENEB341** **Introduction to Internet of Things**

(Perm req)

*Prerequisite: Permission from the Cyber-Physical Systems Engineering program. Restriction: Must be in the Cyber-Physical Systems Engineering program.*

*An introduction to the foundations of Internet of Things (IoT), including IoT devices, communications, connection considerations, back-end services/applications, and business models. This course looks at the IoTs as the general theme of physical/real-world things becoming increasingly visible and actionable via Internet and Web technologies. It also covers networking protocols and gateways, security and privacy, data analytics and cloud computing platforms.*

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|---|---|---|---|
| ESG1 | Nestor Michael Tiglao | Seats (Total: 20) | |
| | MW 4:00pm - 5:15pm | BLD4 3305 | |
| | W 12:50pm - 2:50pm | BLD4 3202 | Lab |
| | *Restricted to students in the Cyber-Physical Systems Engineering Program at USG.* | | |

**ENEB344** **Digital Logic Design for Embedded Systems**

(Perm req)

*Corequisite: ENEB340; and permission from the Cyber-Physical Systems Engineering program. Restriction: Must be in the Cyber-Physical Systems Engineering program.*

*Hands on approach on foundations of digital logic for embedded systems applications; including input/output, logic gates, Karnaugh maps, latches, flip-flops and state-machines. This course also covers design and analysis of synchronous sequential systems, implementation with PLA's, multiplexers, decoders, encoders, binary arithmetic units such as adders and subtractors, conversions between decimal and arbitrary radix numbers, especially octal, hexadecimal, and binary representations, radix and diminished radix arithmetic, and character codes.*

| | | | |
|---|---|---|---|
| ESG1 | Jerry Wu | Seats (Total: 20) | |
| | M 1:20pm - 3:50pm | BLD4 5321 | |
| | Tu 1:00pm - 4:00pm | BLD4 3202 | Lab |
| | *Restricted to students in the Cyber-Physical Systems Engineering Program at USG.* | | |

**ENEB346** **Linear Algebra for Machine Learning Applications**

(Perm req)

*Prerequisite: MATH140. Restriction: Must be in the Cyber-Physical Systems Engineering program and must receive permission from the Cyber-Physical Systems Engineering program.*

*Foundations of linear algebra for machine learning and data science applications with emphasis on implementing machine learning data science algorithms in a computer programming environment with linear algebra software tools and libraries as this course aims to provide a hands-on experience and learning environment for students. Students will learn the fundamental concepts in linear algebra that are directly relevant to machine learning and big data modeling and computations. These include vector and matrix operations, determinants, factorization methods, principal component analysis, eigenvalues, and singular value decomposition.*

| | | |
|---|---|---|
| ESG1 | Nestor Michael Tiglao | Seats (Total: 20) |
| | Th 2:45pm - 5:15pm | BLD4 5321 |
| | *Restricted to students in the Cyber-Physical Systems Engineering Program at USG.* | |

**ENEB354** **Discrete Mathematics for Information Technology**

(Perm req)

*Prerequisite: Minimum grade of C- in MATH141. Restriction: Must be in the Cyber-Physical Systems Engineering program.*

*Foundations of discrete mathematics for information technology and embedded computing. Topics include sets, relations, functions and algorithms, proof techniques and induction, number theory, counting and combinatorics, and Graph theory.*

| | | |
|---|---|---|
| ESG1 | Yavuz Oruc | Seats (Total: 20) |
| | Tu 9:30am - 12:00pm | ONLINE |
| | *Restricted to students in the Cyber-Physical Systems Engineering Program at USG.* | |

**ENEB408A** **Capstone Design Lab; Capstone Design Lab I**

*This course is the first of a two-semester sequence of capstone design laboratory experiences required for Cyber-Physical Systems Engineering students. Students will learn the principles of design, project planning, and project management. They will develop an ability to apply engineering solutions considering public health, safety, and welfare. Students will develop a consciousness of ethical and professional responsibilities and recognition of global, cultural, social, environmental, and economic factors in the design process. Students will also develop an ability to communicate in written and oral forms and to function effectively on a team. Projects will involve hardware, including a combination of off-the-shelf and custom-made components supported by hardware descriptive language software. The projects meet specific design challenges with applications in industry, healthcare, transportation, environmental sensing, cyber-security, and machine learning.*

| | | | |
|---|---|---|---|
| ESG1 | Nestor Michael Tiglao | Seats (Total: 20) | |
| | MW 12:00pm - 12:50pm | BLD4 3335 | |
| | W 1:00pm - 4:00pm | BLD4 5202 | Lab |
| | *Restricted to students in the Cyber-Physical Systems Engineering Program at USG.* | | |

**ENEB444** **Operating Systems for Embedded Systems**

(Perm req)

*Prerequisite: Minimum grade of C- in ENEB340 and ENEB344; and permission from the Cyber-Physical Systems Engineering program. Restriction: Must be in the Cyber-Physical Systems Engineering program.*

*Theory, design, implementation and analysis of low-resource computer operating systems for IoT applications. Through classroom lectures, homework, and projects, students learn the fundamentals of concurrency, process management, interprocess communication and synchronization, job scheduling algorithms, memory management, input-output devices, file systems, and real-time operating systems. Optional topics may include communications protocols and computer security.*

| | | | |
|---|---|---|---|
| ESG1 | Manoj Franklin | Seats (Total: 20) | |
| | Th 9:30am - 12:00pm | ONLINE | |
| | Th 12:40pm - 1:30pm | ONLINE | Discussion |
| | *Restricted to students in the Cyber-Physical Systems Engineering Program at USG.* | | |

**ENEB454** **Embedded Systems**

(Perm req)

*Prerequisite: Minimum grade of C- in ENEB353; and permission from the Cyber-Physical Systems Engineering program. Restriction: Must be in the Cyber-Physical Systems Engineering program.*

*This course will provide students with the essential knowledge base that will enable them to tackle complex problems encountered in embedded systems design. The course will provide an overview of associated hardware components and software methodologies as well as the tools used in the development of modern embedded systems. Student will be exposed to the theoretical foundations which will be reinforced with carefully selected hands-on laboratory exercises, thereby getting a sense of how the theoretical concepts connect with the real-world embedded systems applications.*

| | | | |
|---|---|---|---|
| ESG1 | Jerry Wu | Seats (Total: 20) | |
| | M 4:00pm - 6:30pm | BLD4 3321 | |
| | W 9:30am - 11:30am | BLD4 3202 | Lab |
| | *Restricted to students in the Cyber-Physical Systems Engineering Program at USG.* | | |

# ENEE Electrical & Computer Engineering Fall 2024

**ENEE101** **Introduction to Electrical & Computer Engineering**

(Perm req)

*Corequisite: MATH140. And corequisite: ENEE140 or CMSC131; or a score of 5 on the A Java AP exam; or a score of 4 or 5 on the AB Java AP exam; or satisfactory performance on the department's placement exam. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer) ; and students cannot enroll in ENEE101 and ENES100 in the same semester.*

*An exploration of topics within Electrical & Computer Engineering (ECE). Students will be introduced to key elements of both the Electrical Engineering and Computer Engineering curriculum, including: circuits, computing systems and software, communications and controls, electrodynamics and waves, microelectronics, signal processing, and power systems.*

| | | | |
|---|---|---|---|
| 0101 | Julius Goldhar<br>F 12:00pm - 12:50pm<br>MW 8:00am - 9:50am | Seats (Total: 12)<br>EGR 1202<br>AVW 1344 | <br><br>Lab |
| 0102 | Julius Goldhar<br>F 12:00pm - 12:50pm<br>MW 10:00am - 11:50am | Seats (Total: 12)<br>EGR 1202<br>AVW 1344 | <br><br>Lab |
| 0103 | Julius Goldhar<br>F 12:00pm - 12:50pm<br>MW 12:00pm - 1:50pm | Seats (Total: 12)<br>EGR 1202<br>AVW 1344 | <br><br>Lab |
| 0104 | Julius Goldhar<br>F 12:00pm - 12:50pm<br>MW 2:00pm - 3:50pm | Seats (Total: 12)<br>EGR 1202<br>AVW 1344 | <br><br>Lab |
| 0105 | Julius Goldhar<br>F 12:00pm - 12:50pm<br>MW 4:00pm - 5:50pm | Seats (Total: 12)<br>EGR 1202<br>AVW 1344 | <br><br>Lab |
| 0106 | Julius Goldhar<br>F 12:00pm - 12:50pm<br>TuTh 8:00am - 9:50am | Seats (Total: 12)<br>EGR 1202<br>AVW 1344 | <br><br>Lab |
| 0107 | Julius Goldhar<br>F 12:00pm - 12:50pm<br>TuTh 10:00am - 11:50am | Seats (Total: 12)<br>EGR 1202<br>AVW 1344 | <br><br>Lab |
| 0108 | Julius Goldhar<br>F 12:00pm - 12:50pm<br>TuTh 12:00pm - 1:50pm | Seats (Total: 12)<br>EGR 1202<br>AVW 1344 | <br><br>Lab |
| 0109 | Julius Goldhar<br>F 12:00pm - 12:50pm<br>TuTh 2:00pm - 3:50pm | Seats (Total: 12)<br>EGR 1202<br>AVW 1344 | <br><br>Lab |

| | | | |
|---|---|---|---|
| 0110 | Julius Goldhar<br>F 12:00pm - 12:50pm<br>TuTh 4:00pm - 5:50pm | Seats (Total: 12)<br>EGR 1202<br>AVW 1344 | Lab |
| 0111 | Julius Goldhar<br>F 12:00pm - 12:50pm<br>TuTh 4:00pm - 5:50pm | Seats (Total: 12)<br>EGR 1202<br>AVW 1334 | Lab |
| 0112 | Julius Goldhar<br>F 12:00pm - 12:50pm<br>TuTh 12:00pm - 1:50pm | Seats (Total: 12)<br>EGR 1202<br>AVW 1334 | Lab |

**ENEE140** **Introduction to Programming Concepts for Engineers**

(Perm req)

*Prerequisite: Permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in Engineering: Electrical program; or must be in Engineering: Materials Science program.*

*Introduction to the programming environment: editing, compiling, UNIX, data types and variable scope; program selection, formatted/unformatted input/output, repetition, functions, arrays and strings.*

| | | | |
|---|---|---|---|
| 0101 | Tudor Dumitras<br>Tu 9:30am - 10:45am<br>WF 3:00pm - 3:50pm | Seats (Total: 15)<br>CHE 2108<br>AVW 2446 | Discussion |
| 0102 | Tudor Dumitras<br>Tu 9:30am - 10:45am<br>WF 2:00pm - 2:50pm | Seats (Total: 15)<br>CHE 2108<br>AVW 2446 | Discussion |
| 0103 | Tudor Dumitras<br>Tu 9:30am - 10:45am<br>WF 1:00pm - 1:50pm | Seats (Total: 15)<br>CHE 2108<br>AVW 2446 | Discussion |
| 0104 | Tudor Dumitras<br>Tu 9:30am - 10:45am<br>WF 11:00am - 11:50am | Seats (Total: 15)<br>CHE 2108<br>AVW 2446 | Discussion |
| 0105 | Tudor Dumitras<br>Tu 9:30am - 10:45am<br>WF 9:00am - 9:50am | Seats (Total: 15)<br>CHE 2108<br>AVW 2446 | Discussion |

| | | | |
|---|---|---|---|
| 0106 | Tudor Dumitras<br>Tu 9:30am - 10:45am<br>WF 10:00am - 10:50am | Seats (Total: 15)<br>CHE 2108<br>AVW 2446 | Discussion |

**ENEE150** **Intermediate Programming Concepts for Engineers**

(Perm req)

*Prerequisite: Permission of ENGR-Electrical & Computer Engineering department. And ENEE140 or CMSC131; or score of 5 on the A Java AP exam; or score of 4 or 5 on the AB Java AP exam; or satisfactory performance on the department's placement exam. Corequisite: MATH140. Restriction: Must be in Engineering: Electrical program.*

*Advanced programming concepts: coding conventions and style; pointers; dynamic memory allocation and data structures; linked lists; graphs; abstract data types; object-oriented design. There will be team-based software projects and group presentations.*

| | | | |
|---|---|---|---|
| 0101 | Gang Qu<br>TuTh 11:00am - 12:15pm<br>F 9:00am - 9:50am | Seats (Total: 12)<br>EGR 1108<br>AVW 1454 | Discussion |
| 0102 | Gang Qu<br>TuTh 11:00am - 12:15pm<br>F 10:00am - 10:50am | Seats (Total: 12)<br>EGR 1108<br>AVW 1454 | Discussion |
| 0103 | Gang Qu<br>TuTh 11:00am - 12:15pm<br>F 11:00am - 11:50am | Seats (Total: 12)<br>EGR 1108<br>AVW 1454 | Discussion |
| 0104 | Gang Qu<br>TuTh 11:00am - 12:15pm<br>F 1:00pm - 1:50pm | Seats (Total: 12)<br>EGR 1108<br>AVW 1454 | Discussion |

**ENEE200** **Technology and Consequences: Engineering, Ethics, and Humanity**

*Credit only granted for: ENEE200 or ENES200.*

*What makes a technology socially responsible? At UMD, the Fearless Ideas campaign asks us to aim our enthusiasm for technology at big real problems. At the same time, we are coming to appreciate the increasingly complex nature of technological systems as they become integrated into all forms of infrastructure, we realize they may be unpredictable, interdependent on social and biological systems, and have unintended consequences. In this midst of this complexity, people make decisions with far reaching impacts. How then do we follow our passion for technology and innovation but also stay skeptical in a way that allows us to consider the potential and shortcomings of technology? Designed for both engineering and non-engineering students wishing to explore and assess the impact of engineering technology on society and the role of society in generating that technology.*

Electrical Engineering (09090) and Computer Engineering(09991) majors have priority. Non-majors should choose the holdfile option. Department will release available seats to students in the holdfile after the last day of Early Registration for Freshmen.

| | | | |
|---|---|---|---|
| 0101 | Wesley Lawson<br>TuTh 9:30am - 10:45am<br>F 9:00am - 10:15am | Seats (Total: 16)<br>ATL 2324<br>EGR 3111 | Discussion |
| 0102 | Wesley Lawson<br>TuTh 9:30am - 10:45am<br>F 10:30am - 11:45am | Seats (Total: 16)<br>ATL 2324<br>CHE 2116 | Discussion |
| 0103 | Wesley Lawson<br>TuTh 9:30am - 10:45am<br>F 12:00pm - 1:15pm | Seats (Total: 16)<br>ATL 2324<br>EGR 1110 | Discussion |
| 0104 | Wesley Lawson<br>TuTh 9:30am - 10:45am<br>F 1:30pm - 2:45pm | Seats (Total: 16)<br>ATL 2324<br>EGR 1110 | Discussion |
| 0105 | Wesley Lawson<br>TuTh 9:30am - 10:45am<br>F 3:00pm - 4:15pm | Seats (Total: 16)<br>ATL 2324<br>EGR 3111 | Discussion |
| 0201 | Nicole Mogul<br>TuTh 3:30pm - 4:45pm<br>F 9:00am - 10:15am | Seats (Total: 15)<br>ESJ 0215<br>PLS 1146 | Discussion |
| 0202 | Nicole Mogul<br>TuTh 3:30pm - 4:45pm<br>F 10:30am - 11:45am | Seats (Total: 15)<br>ESJ 0215<br>CHE 2140 | Discussion |
| 0203 | Nicole Mogul<br>TuTh 3:30pm - 4:45pm<br>F 12:00pm - 1:15pm | Seats (Total: 15)<br>ESJ 0215<br>EGR 3102 | Discussion |
| 0204 | Nicole Mogul<br>TuTh 3:30pm - 4:45pm<br>F 1:30pm - 2:45pm | Seats (Total: 15)<br>ESJ 0215<br>EGR 3102 | Discussion |

| | | | |
|---|---|---|---|
| 0205 | Nicole Mogul<br>TuTh 3:30pm - 4:45pm<br>F 3:00pm - 4:15pm | Seats (Total: 15)<br>ESJ 0215<br>AJC 2119 | <br><br>Discussion |

**ENEE205** **Electric Circuits**

(Perm req)

*Prerequisite: Minimum grade of C- in PHYS260; and minimum grade of C- in PHYS261; and permission of ENGR-Electrical & Computer Engineering department. Corequisite: MATH246 or ENEE290. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).*

*Design, analysis, simulation, construction and evaluation of electric circuits. Terminal Relationships. Kirchoff's laws. DC and AC steady state analysis. Node and mesh methods. Thevenin and Norton equivalent circuits. Transient behavior of first- and second-order circuits. Frequency response and transfer functions. Ideal op-amp circuits. Diode and transistor circuits.*

| | | | |
|---|---|---|---|
| 0101 | Wesley Lawson<br>MW 2:00pm - 3:15pm<br>F 11:00am - 12:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 12)<br>EGR 1108<br>AVW 1356<br>AVW 1356 | <br><br>Lab<br>Discussion |
| 0102 | Wesley Lawson<br>MW 2:00pm - 3:15pm<br>Tu 8:00am - 9:50am<br>Tu 10:00am - 10:50am | Seats (Total: 12)<br>EGR 1108<br>AVW 1356<br>AVW 1356 | <br><br>Lab<br>Discussion |
| 0103 | Wesley Lawson<br>MW 2:00pm - 3:15pm<br>W 11:00am - 12:50pm<br>W 1:00pm - 1:50pm | Seats (Total: 12)<br>EGR 1108<br>AVW 1356<br>AVW 1356 | <br><br>Lab<br>Discussion |
| 0104 | Wesley Lawson<br>MW 2:00pm - 3:15pm<br>W 8:00am - 9:50am<br>W 10:00am - 10:50am | Seats (Total: 12)<br>EGR 1108<br>AVW 1356<br>AVW 1356 | <br><br>Lab<br>Discussion |
| 0201 | Romel Gomez<br>TuTh 9:30am - 10:45am<br>M 11:00am - 12:50pm<br>M 1:00pm - 1:50pm | Seats (Total: 12)<br>EGR 0108<br>AVW 1356<br>AVW 1356 | <br><br>Lab<br>Discussion |

| | | | |
|---|---|---|---|
| 0202 | Romel Gomez | Seats (Total: 14) | |
| | TuTh 9:30am - 10:45am | EGR 0108 | |
| | M 2:00pm - 3:50pm | AVW 1356 | Lab |
| | M 4:00pm - 4:50pm | AVW 1356 | Discussion |
| 0203 | Romel Gomez | Seats (Total: 14) | |
| | TuTh 9:30am - 10:45am | EGR 0108 | |
| | F 8:00am - 9:50am | AVW 1356 | Lab |
| | F 10:00am - 10:50am | AVW 1356 | Discussion |
| 0204 | Romel Gomez | Seats (Total: 14) | |
| | TuTh 9:30am - 10:45am | EGR 0108 | |
| | W 2:00pm - 3:50pm | AVW 1356 | Lab |
| | W 4:00pm - 4:50pm | AVW 1356 | Discussion |

**ENEE222** **Elements of Discrete Signal Analysis**

(Perm req)

*Prerequisite: Minimum grade of C- in ENEE140; or minimum grade of C- in CMSC131; and permission of ENGR- Electrical & Computer Engineering department. Corequisite: ENEE290; or coursework approved by the department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer).*

*Discrete- and continuous-time signals, sampling of sinusoids. Discrete Fourier transform: properties and applications. Periodic signals and Fourier series. Discrete-time linear filters in time and frequency domains. Numerical applications and implementation of algorithms (using MATLAB).*

| | | | |
|---|---|---|---|
| 0101 | Adrianos Papamarcou | Seats (Total: 25) | |
| | MW 12:30pm - 1:45pm | EGR 1108 | |
| | Tu 9:00am - 9:50am | KEB 2107 | Lab |
| | Th 9:00am - 9:50am | KEB 2107 | Discussion |
| 0102 | Adrianos Papamarcou | Seats (Total: 25) | |
| | MW 12:30pm - 1:45pm | EGR 1108 | |
| | Tu 10:00am - 10:50am | KEB 2107 | Lab |
| | Th 10:00am - 10:50am | KEB 2107 | Discussion |
| 0103 | Adrianos Papamarcou | Seats (Total: 20) | |
| | MW 12:30pm - 1:45pm | EGR 1108 | |
| | Th 11:00am - 11:50am | KEB 2107 | Lab |
| | Tu 11:00am - 11:50am | KEB 2107 | Discussion |

| | | | |
|---|---|---|---|
| 0201 | Alejandra Mercado<br>TuTh 12:30pm - 1:45pm<br>W 9:00am - 9:50am<br>F 9:00am - 9:50am | Seats (Total: 25)<br>EGR 0108<br>KEB 2107<br>KEB 2107 | <br><br>Lab<br>Discussion |
| 0202 | Alejandra Mercado<br>TuTh 12:30pm - 1:45pm<br>W 10:00am - 10:50am<br>F 10:00am - 10:50am | Seats (Total: 25)<br>EGR 0108<br>KEB 2107<br>KEB 2107 | <br><br>Lab<br>Discussion |
| 0203 | Alejandra Mercado<br>TuTh 12:30pm - 1:45pm<br>M 11:00am - 11:50am<br>W 11:00am - 11:50am | Seats (Total: 20)<br>EGR 0108<br>KEB 2107<br>KEB 2107 | <br><br>Lab<br>Discussion |

**ENEE244** **Digital Logic Design**

(Perm req)

*Prerequisite: Must have completed or be concurrently enrolled in CMSC132 or ENEE150; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Sophomore standing or higher; and must be in one of the following programs (Engineering: Computer; Engineering: Electrical).*

*The design and analysis of combinational and synchronous sequential systems comprising digital logic gates and flip-flop memory devices; underlying tools such as switching and Boolean algebras and Karnaugh map simplification of gate networks; design and use of decoders, multiplexers, encoders, adders, registers, counters, sequence recognizers, programmable logic arrays (PLAs), read-only memories (ROMS, PROMS), and similar devices. Arbitrary radix conversion.*

Engineering College only (04).

| | | | |
|---|---|---|---|
| 0101 | Rajeev Barua<br>MW 11:00am - 12:15pm<br>Th 9:00am - 9:50am | Seats (Total: 13)<br>KEB 1110<br>EGR 3111 | <br><br>Discussion |
| 0102 | Rajeev Barua<br>MW 11:00am - 12:15pm<br>Th 10:00am - 10:50am | Seats (Total: 13)<br>KEB 1110<br>PHY 4221 | <br><br>Discussion |
| 0103 | Rajeev Barua<br>MW 11:00am - 12:15pm<br>Th 11:00am - 11:50am | Seats (Total: 13)<br>KEB 1110<br>ATL 1106 | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 0104 | Rajeev Barua<br>MW 11:00am - 12:15pm<br>Th 12:00pm - 12:50pm | Seats (Total: 13)<br>KEB 1110<br>PHY 4222 | Discussion |
| 0105 | Rajeev Barua<br>MW 11:00am - 12:15pm<br>Th 1:00pm - 1:50pm | Seats (Total: 13)<br>KEB 1110<br>ATL 1106 | Discussion |
| 0106 | Rajeev Barua<br>MW 11:00am - 12:15pm<br>Th 2:00pm - 2:50pm | Seats (Total: 13)<br>KEB 1110<br>EGR 1102 | Discussion |
| 0201 | Gang Qu<br>TuTh 2:00pm - 3:15pm<br>M 9:00am - 9:50am | Seats (Total: 16)<br>EGR 1202<br>EGR 3111 | Discussion |
| 0202 | Gang Qu<br>TuTh 2:00pm - 3:15pm<br>M 10:00am - 10:50am | Seats (Total: 16)<br>EGR 1202<br>EGR 3111 | Discussion |
| 0203 | Gang Qu<br>TuTh 2:00pm - 3:15pm<br>M 11:00am - 11:50am | Seats (Total: 14)<br>EGR 1202<br>EGR 3111 | Discussion |
| 0204 | Gang Qu<br>TuTh 2:00pm - 3:15pm<br>M 12:00pm - 12:50pm | Seats (Total: 16)<br>EGR 1202<br>CHE 2116 | Discussion |
| 0205 | Gang Qu<br>TuTh 2:00pm - 3:15pm<br>M 1:00pm - 1:50pm | Seats (Total: 14)<br>EGR 1202<br>CHE 2116 | Discussion |
| 0206 | Gang Qu<br>TuTh 2:00pm - 3:15pm<br>M 2:00pm - 2:50pm | Seats (Total: 14)<br>EGR 1202<br>CHE 2116 | Discussion |

**ENEE245** **Digital Circuits and Systems Laboratory**

(Perm req)

*Prerequisite: Minimum grade of C- in ENEE244. And minimum grade of C- in ENEE150; or minimum grade of C- in CMSC132. And permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer).*

*Introduction to basic measurement techniques and electrical laboratory equipment (power supplies, oscilloscopes, voltmeters, etc.). Design, construction, and characterization of digital circuits containing logic gates, sequential elements, oscillators, and digital integrated circuits. Introduction to digital design and simulation with the Verilog Hardware Description Language (HDL).*

| | | | |
|---|---|---|---|
| 0101 | Manoj Franklin<br>M 10:00am - 10:50am<br>M 2:00pm - 4:50pm | Seats (Total: 12)<br>EGR 1202<br>AVW 1324 | <br><br>Lab |
| 0102 | Manoj Franklin<br>M 10:00am - 10:50am<br>Tu 8:00am - 10:50am | Seats (Total: 12)<br>EGR 1202<br>AVW 1324 | <br><br>Lab |
| 0103 | Manoj Franklin<br>M 10:00am - 10:50am<br>W 11:00am - 1:50pm | Seats (Total: 12)<br>EGR 1202<br>AVW 1324 | <br><br>Lab |
| 0104 | Manoj Franklin<br>M 10:00am - 10:50am<br>Th 11:00am - 1:50pm | Seats (Total: 12)<br>EGR 1202<br>AVW 1324 | <br><br>Lab |
| 0105 | Manoj Franklin<br>M 10:00am - 10:50am<br>F 12:00pm - 2:50pm | Seats (Total: 12)<br>EGR 1202<br>AVW 1324 | <br><br>Lab |
| 0106 | Manoj Franklin<br>M 10:00am - 10:50am<br>Tu 2:00pm - 4:50pm | Seats (Total: 12)<br>EGR 1202<br>AVW 1324 | <br><br>Lab |
| 0107 | Manoj Franklin<br>M 10:00am - 10:50am<br>Tu 11:00am - 1:50pm | Seats (Total: 12)<br>EGR 1202<br>AVW 1324 | <br><br>Lab |
| 0108 | Manoj Franklin<br>M 10:00am - 10:50am<br>W 8:00am - 10:50am | Seats (Total: 12)<br>EGR 1202<br>AVW 1324 | <br><br>Lab |
| 0109 | Manoj Franklin<br>M 10:00am - 10:50am<br>W 2:00pm - 4:50pm | Seats (Total: 12)<br>EGR 1202<br>AVW 1324 | <br><br>Lab |

**ENEE290 Introduction to Differential Equations and Linear Algebra for Engineers**

(Perm req)

*Prerequisite: Minimum grade of C- in MATH141; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer). Credit only granted for: ENEE290, MATH240, MATH246, or MATH461.*

*First-order differential equations, matrices and systems of linear equations, finite-dimensional vector spaces, inner product spaces, eigenvalues and eigenvectors, linear differential equations of higher order, and systems of differential equations. This course covers important topics in mathematics for Electrical and Computer Engineers. Specifically, several topics are covered, including first-order differential equations, matrices and systems of linear equations, finite-dimensional vector spaces, inner product spaces, eigenvalues and eigenvectors, linear differential equations of higher order, and systems of differential equations. Theoretical topics presented in the lectures will be reinforced by laboratory exercises.*

| | | | |
|---|---|---|---|
| 0101 | Richard La<br>MW 3:30pm - 4:45pm<br>TuTh 12:30pm - 1:20pm | Seats (Total: 22)<br>AJC 2121<br>ATL 2416 | <br><br>Discussion |
| 0102 | Richard La<br>MW 3:30pm - 4:45pm<br>TuTh 4:00pm - 4:50pm | Seats (Total: 22)<br>AJC 2121<br>CSI 2120 | <br><br>Discussion |
| 0201 | Calin Belta<br>TuTh 3:30pm - 4:45pm<br>MW 4:00pm - 4:50pm | Seats (Total: 23)<br>PHY 4221<br>MTH 0104 | <br><br>Discussion |
| 0202 | Calin Belta<br>TuTh 3:30pm - 4:45pm<br>MW 5:00pm - 5:50pm | Seats (Total: 23)<br>PHY 4221<br>EGR 3102 | <br><br>Discussion |

**ENEE301** **Current Trends in Electrical and Computer Engineering**

(Perm req)

*Prerequisite: Minimum grade of C- in MATH140; and must have completed or be concurrently enrolled in ENEE140 or CMSC131; or a score of 5 on the A Java AP exam; or a score of 4 or 5 on the AB Java AP exam; or satisfactory performance on the department's placement exam. Restriction: Must be a junior or senior in Electrical Engineering or Computer Engineering; or permission of instructor. Credit only granted for: ENEE101 or ENEE301.*

*A survey course on the current trends in Electrical and Computer Engineering (ECE). Students will be introduced to foundational knowledge of key technologies, providing them with technical information and a broad principled understanding of the relevance of these technologies to society. Students will acquire these knowledge bases through high-level lectures and hands-on experiential learning involving key technologies, including: energy generation and utilization, communication, advanced computing, information processing and machine intelligence, and autonomy.*

| | | | |
|---|---|---|---|
| 0101 | Danilo Romero<br>F 11:00am - 11:50am<br>MW 11:00am - 12:50pm | Seats (Total: 14)<br>JMP 2222<br>AVW 1364 | <br><br>Lab |
| 0102 | Danilo Romero<br>F 11:00am - 11:50am<br>TuTh 11:00am - 12:50pm | Seats (Total: 14)<br>JMP 2222<br>AVW 1364 | <br><br>Lab |

**ENEE303** **Analog and Digital Electronics**

(Perm req)

*Prerequisite: Minimum grade of C- in ENEE205; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer).*

*Conceptual operation of transistors and diodes. Large and small signal operation of BJTs and MOSFETs. Basic transistor configurations. Logic circuits and semiconductor memory. Multi-transistor circuits including differential amplifiers and current mirrors. Frequency response.*

| | | | |
|---|---|---|---|
| 0101 | Timothy Horiuchi<br>MW 12:30pm - 1:45pm<br>F 9:00am - 9:50am | Seats (Total: 22)<br>EGR 0108<br>CHE 2140 | <br><br>Discussion |
| 0102 | Timothy Horiuchi<br>MW 12:30pm - 1:45pm<br>F 10:00am - 10:50am | Seats (Total: 22)<br>EGR 0108<br>CHE 2145 | <br><br>Discussion |

**ENEE304** **Introduction to Micro and Nanoelectronics**

(Perm req)

*Prerequisite: Minimum grade of C- in ENEE205; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer). Credit only granted for: ENEE304 or ENEE303; ENEE304 or ENEE313.*

*Introduction to semiconductor device physics: drift-diffusion model, pn junction properties, BJTs and FETs. Electronic circuits: diode circuits, BJT and MOSFET amplifiers, logic gates and multi-transistor circuits (such as differential amplifiers and current mirrors).*

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|---|---|---|---|
| 0101 | Neil Goldsman<br>MW 12:30pm - 1:45pm<br>F 10:00am - 10:50am | Seats (Total: 21)<br>EGR 1104<br>PHY 4222 | <br><br>Discussion |

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|---|---|---|---|
| 0102 | Neil Goldsman<br>MW 12:30pm - 1:45pm<br>F 11:00am - 11:50am | Seats (Total: 21)<br>EGR 1104<br>MTH 0102 | Discussion |
| 0201 | Kevin Daniels<br>TuTh 2:00pm - 3:15pm<br>W 9:00am - 9:50am | Seats (Total: 21)<br>AJC 2121<br>EGR 3102 | Discussion |
| 0202 | Kevin Daniels<br>TuTh 2:00pm - 3:15pm<br>W 10:00am - 10:50am | Seats (Total: 21)<br>AJC 2121<br>MTH 0104 | Discussion |

**ENEE307** **Electronic Circuits Design Laboratory**

(Perm req)

*Prerequisite: Minimum grade of C- in ENEE303; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).*

*Students will design and test analog and digital circuits at the transistor level. FETs and BJTs will be covered. The laboratory experiments will be tightly coordinated with ENEE303 materials.*

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|---|---|---|---|
| 0101 | Danilo Romero<br>W 10:00am - 10:50am<br>Tu 11:00am - 1:50pm | Seats (Total: 8)<br>EGR 1104<br>AVW 1330 | Lab |
| 0102 | Danilo Romero<br>W 10:00am - 10:50am<br>M 11:00am - 1:50pm | Seats (Total: 8)<br>EGR 1104<br>AVW 1330 | Lab |
| 0103 | Danilo Romero<br>W 10:00am - 10:50am<br>Th 8:00am - 10:50am | Seats (Total: 8)<br>EGR 1104<br>AVW 1330 | Lab |
| 0104 | Danilo Romero<br>W 10:00am - 10:50am<br>W 2:00pm - 4:50pm | Seats (Total: 8)<br>EGR 1104<br>AVW 1330 | Lab |
| 0105 | Danilo Romero<br>W 10:00am - 10:50am<br>Tu 2:00pm - 4:50pm | Seats (Total: 8)<br>EGR 1104<br>AVW 1330 | Lab |

**ENEE322** **Signal and System Theory**

(Perm req)

*Prerequisite: Minimum grade of C- in MATH246 or ENEE290; and minimum grade of C- in ENEE222. Restriction: Permission of ENGR-Electrical & Computer Engineering department. Must be in the following program (Engineering: Computer). Credit only granted for: ENEE322 or ENEE323.*

*Concept of linear systems, state space equations for continuous systems, time and frequency domain analysis of signals and linear systems. Fourier, Laplace and Z transforms. Application of theory to problems in electrical engineering.*

ENEE majors (09090) only.

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|---|---|---|---|
| 0101 | Mark Shayman<br>TuTh 11:00am - 12:15pm<br>F 12:00pm - 12:50pm | Seats (Total: 20)<br>KEB 1200<br>CHE 2116 | Discussion |
| 0102 | Mark Shayman<br>TuTh 11:00am - 12:15pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>KEB 1200<br>MTH 0401 | Discussion |
| 0201 | Adrianos Papamarcou<br>MW 3:30pm - 4:45pm<br>Th 11:00am - 11:50am | Seats (Total: 20)<br>EGR 1108<br>PLS 1111 | Discussion |
| 0202 | Adrianos Papamarcou<br>MW 3:30pm - 4:45pm<br>Th 12:00pm - 12:50pm | Seats (Total: 20)<br>EGR 1108<br>PLS 1111 | Discussion |

**ENEE323** **Signals and Systems: Theory and Applications**

(Perm req)

*Prerequisite: Minimum grade of C- in MATH246 or ENEE290; and minimum grade of C- in ENEE222; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in the following program (Engineering: Electrical). Credit only granted for: ENEE322 or ENEE323.*

*This is a course and laboratory on signals and systems. The course lectures cover concepts in linear systems, and time and frequency domain analysis of signals and linear systems. Signal analysis topics: discrete- and continuous-time Fourier transforms, Laplace and z-transforms. Dynamical system properties: linearity, time-invariance, stability and invertibility. Analysis of linear time-invariant systems in the time domain (impulse response and convolution) and transform domain (transfer function and frequency response). Applications in signal processing, communications and control.*

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|---|---|---|---|
| 0101 | Adrianos Papamarcou<br>MW 3:30pm - 4:45pm<br>Tu 11:00am - 11:50am<br>Th 11:00am - 11:50am | Seats (Total: 5)<br>EGR 1108<br>AVW 2446<br>PLS 1111 | <br><br>Lab<br>Discussion |

**ENEE324** **Engineering Probability**

(Perm req)

*Prerequisite: Minimum grade of C- in MATH246 and ENEE222; and permission of ENGR-Electrical & Computer Engineering department. Credit only granted for: DATA400, STAT400 or ENEE324. Additional information: Electrical Engineering majors may NOT substitute STAT400 for ENEE324.*

*Axioms of probability; conditional probability and Bayes' rules; random variables, probability distribution and densities: functions of random variables: weak law of large numbers and central limit theorem. Introduction to random processes; correlation functions, spectral densities, and linear systems. Applications to noise in electrical systems, filtering of signals from noise, estimation, and digital communications.*

ENEE majors (09090) only.

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|---|---|---|---|
| 0101 | Prakash Narayan<br>MW 2:00pm - 3:15pm<br>F 11:00am - 11:50am | Seats (Total: 20)<br>AJC 2132<br>EGR 3102 | <br><br>Discussion |
| 0102 | Prakash Narayan<br>MW 2:00pm - 3:15pm<br>F 10:00am - 10:50am | Seats (Total: 20)<br>AJC 2132<br>MTH B0423 | <br><br>Discussion |
| 0201 | Mark Shayman<br>TuTh 3:30pm - 4:45pm<br>F 9:00am - 9:50am<br>*Click here for more section information.* | Seats (Total: 20)<br>KEB 1200<br>CHE 2116 | <br><br>Discussion |
| 0202 | Mark Shayman<br>TuTh 3:30pm - 4:45pm<br>F 8:00am - 8:50am | Seats (Total: 20)<br>KEB 1200<br>CHE 2116 | <br><br>Discussion |

**ENEE350** **Computer Organization**

(Perm req)

*Prerequisite: Minimum grade of C- in ENEE244; and 1 course with a minimum grade of C- from (ENEE150, CMSC132); and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).*

*Structure and organization of digital computers. Registers, memory, control and I/O. Data and instruction formats, addressing modes, assembly language programming. Elements of system software, subroutines and their linkages.*

ENEE majors (09090) only

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|---|---|---|---|
| 0101 | Yavuz Oruc<br>TuTh 3:30pm - 4:45pm<br>Tu 9:00am - 9:50am | Seats (Total: 20)<br>EGR 1104<br>JMP 1202 | <br><br>Discussion |
| 0102 | Yavuz Oruc<br>TuTh 3:30pm - 4:45pm<br>Tu 10:00am - 10:50am | Seats (Total: 20)<br>EGR 1104<br>JMP 1202 | <br><br>Discussion |
| 0201 | Yavuz Oruc<br>TuTh 12:30pm - 1:45pm<br>W 9:00am - 9:50am | Seats (Total: 20)<br>JMP 2121<br>CHE 2140 | <br><br>Discussion |
| 0202 | Yavuz Oruc<br>TuTh 12:30pm - 1:45pm<br>W 10:00am - 10:50am | Seats (Total: 20)<br>JMP 2121<br>EGR 3114 | <br><br>Discussion |
| 0301 | Manoj Franklin<br>MW 11:00am - 12:15pm<br>F 12:00pm - 12:50pm | Seats (Total: 20)<br>EGR 0108<br>CHE 2145 | <br><br>Discussion |
| 0302 | Manoj Franklin<br>MW 11:00am - 12:15pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>EGR 0108<br>EGR 3114 | <br><br>Discussion |

**ENEE350H** **Computer Organization**

(Perm req)

*Prerequisite: Minimum grade of C- in ENEE244; and 1 course with a minimum grade of C- from (ENEE150, CMSC132); and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).*

*Structure and organization of digital computers. Registers, memory, control and I/O. Data and instruction formats, addressing modes, assembly language programming. Elements of system software, subroutines and their linkages.*

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|---|---|---|---|
| 0101 | Rajeev Barua<br>TuTh 3:30pm - 4:45pm<br>F 1:00pm - 1:50pm | Seats (Total: 16)<br>AJC 2132<br>ATL 2316 | <br><br>Discussion |

**ENEE382** **Electromagnetics**

(Perm req)

*Prerequisite: Minimum of C- or better in ENEE205, MATH241, PHYS270, and PHYS271; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in the Electrical Engineering program. Credit only granted for: ENEE380 or ENEE382; ENEE381 or ENEE382.*

*Theory and tools needed to solve electromagnetic problems and understand how electromagnetic waves propagate and interact with materials. Fields and potentials. Maxwell's equations and wave propagation. Reflection and transmission. Transmission lines. Antennas and radiation.*

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|---|---|---|---|
| 0101 | Patrick O'Shea<br>TuTh 9:30am - 10:45am<br>MW 9:00am - 9:50am | Seats (Total: 20)<br>EGR 3106<br>CHE 2116 | <br><br>Discussion |
| 0102 | Patrick O'Shea<br>TuTh 9:30am - 10:45am<br>MW 10:00am - 10:50am | Seats (Total: 20)<br>EGR 3106<br>CHE 2116 | <br><br>Discussion |
| 0201 | Howard Milchberg<br>MW 2:00pm - 3:15pm<br>TuTh 9:30am - 10:20am | Seats (Total: 20)<br>EGR 3106<br>ATL 2330 | <br><br>Discussion |
| 0202 | Howard Milchberg<br>MW 2:00pm - 3:15pm<br>TuTh 8:00am - 8:50am | Seats (Total: 20)<br>EGR 3106<br>CHE 2116 | <br><br>Discussion |

**ENEE408A** **Capstone Design Project:Microprocessor-Based Design**

(Perm req)

Prerequisite: ENEE440 or permission of the instructor. This course provides a team-based experience in the design and implementation of a microprocessor-based system to solve a real-world problem. A product specification or client requirement forms the basis for the student teams development of an initial technical design specification. The team then divides into smaller groups for the parallel development of hardware and software subsystems of the product device. Upon completion and test of the various subsystems, software and hardware components are integrated into the system prototype and the system is tested and documented.

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|---|---|---|---|
| 0101 | William Hawkins<br>Th 9:30am - 10:20am<br>Contact instructor or department for details. | Seats (Total: 12)<br>EGR 1110 | |

**ENEE408C** **Capstone Design Project: Modern Digital System Design**

(Perm req)

Prerequisite: ENEE 350. A real-world digital system design experience that prepares students for careers in FPGA and ASIC design. Student teams use the Verilog hardware description language together with industry-standard simulation and synthesis tools to design medium-complexity digital chips that are ultimately configured and tested on FPGAs with real-world applications. Results from these projects will be presented through in-class presentations and written reports.

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|---|---|---|---|
| 0101 | Shuvra Bhattacharyya | Seats (Total: 16) | |
| | Tu 3:30pm - 4:45pm | KEB 2107 | |
| | Th 2:00pm - 4:50pm | KEB 2107 | Lab |

**ENEE408I** **Capstone Design Project: Autonomous Control of Interacting Robots**

(Perm req)

Prerequisite: ENEE322. Co-requisite: ENEE460 is recommended. The course involves students in the design,development, and application of autonomous robotic systems.The robots are 4 wheeled vehicles with on-board sensors (cameras, acoustic sensors),computers and wireless communications capabilities. The students work in teams to program the the robots to accomplish a task individually and in teams of 2 or more robots. Applications vary from semester to semester, including racing with passing, soccer, search and identify.

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|---|---|---|---|
| 0101 | Shihab Shamma | Seats (Total: 17) | |
| | M 10:00am - 10:50am | EGR 3114 | |
| | W 9:00am - 11:50am | KEB 3209 | Lab |

**ENEE408V** **Capstone Design Project; Smart Submersible Marine Vehicles**

(Perm req)

*Culmination of prior course work in electrical and computer engineering. Utilization of modern design tools and methodologies for the design of components or systems under realistic constraints, with particular emphasis on teamwork and oral/written communication. Areas in which projects are currently offered include: microprocessor-based systems, digital systems, VLSI design (both digital and mixed-signal), and optical systems.*

Prerequisite: C- or better in two of the following courses: ENEE303, ENEE304, ENEE305, ENEE307, ENEE313, ENEE322, ENEE323, ENEE324, ENEE350, ENEE380, ENEE381, ENEE382, or ENEE473; and must have senior standing. Students will design and build small marine crafts (baby submarines) capable of communication, autonomous navigation, computer vision and swarm formations. Students will learn the fundamentals of underwater depth control, propulsion and dynamics, localization and navigation, wireless above and underwater communication and others. Students will utilize skills in microprocessors hardware/software codesign, electromagnetics, acoustics, optics, power, BLM techniques, image/video processing and controls, including elements of mechanical design. Teams will work together to specialize in various subsystems; and following standards for compatibility and systems integration. As an authentic design process mimicking product development, strict deadlines and milestones will be imposed and students may be expected to do work outside the regular meeting times.

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|---|---|---|---|
| 0101 | Romel Gomez<br>TuTh 2:00pm - 2:50pm<br>Th 3:00pm - 6:00pm | Seats (Total: 16)<br>AVW 1450<br>AVW 1450 | <br><br>Lab |

**ENEE411** **Advanced Analog and Digital Electronics**

(Perm req)

*Prerequisite: Minimum grade of C- in ENEE303 or ENEE304. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer) ; and must have permission of the department.*

*Examination of analog and digital device models for analysis, design, and simulation of transistor level electronic circuits, emphasizing Metal Oxide Silicon Field Effect Transistors (MOSFETs); fundamental single transistor configurations; frequency response, feedback, and stability of multi-transistor circuits, such as current mirrors, differential amplifiers, voltage references, operational amplifiers and data converters; complementary Metal Oxide Silicon (CMOS) implementations of static and clocked digital as well as mixed signal circuits.*

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|---|---|---|---|
| 0101 | Pamela Abshire<br>MW 11:00am - 12:15pm | Seats (Total: 30)<br>AJC 2132 | |

**ENEE416** **Integrated Circuit Fabrication Laboratory**

(Perm req)

*Prerequisite: Minimum grade of C- in ENEE303 or ENEE304; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical), and permission of ENGR-Electrical & Computer Engineering department.*

*Characterization of wafers and fabrication steps. Oxide growth, lithography, dopant diffusion, and metal deposition and patterning will be discussed in the lectures and carried out in the lab in fabricating NMOS transistor circuits. The transistor characteristics will be measured and related to the fabrication parameters.*

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| 0101 | Agisilaos Iliadis<br>Th 11:00am - 12:15pm<br>Tu 9:00am - 12:00pm | Seats (Total: 5)<br>EGR 2116<br>KEB 2300 | <br><br>Lab |
| 0102 | Agisilaos Iliadis<br>Th 11:00am - 12:15pm<br>W 12:30pm - 3:30pm | Seats (Total: 5)<br>EGR 2116<br>KEB 2300 | <br><br>Lab |
| 0103 | Agisilaos Iliadis<br>Th 11:00am - 12:15pm<br>M 12:30pm - 3:30pm | Seats (Total: 5)<br>EGR 2116<br>KEB 2300 | <br><br>Lab |

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|---|---|---|---|
| 0104 | Agisilaos Iliadis | Seats (Total: 5) | |
| | Th 11:00am - 12:15pm<br>F 9:00am - 12:00pm | EGR 2116<br>KEB 2300 | Lab |

**ENEE420** **Communication Systems**

(Perm req)

*Prerequisite: Minimum grade of C- in ENEE322 or ENEE323; and minimum grade of C- in ENEE324; and completion of all lower-division technical courses in the Electrical Engineering curriculum. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical), and permission of ENGR-Electrical & Computer Engineering department.*

*Fourier series, Fourier transforms and linear system analysis; random signals, autocorrelation functions and power spectral densities; analog communication systems: amplitude modulation, single-sideband modulation, frequency and phase modulation, sampling theorem and pulse-amplitude modulation; digital communication systems pulse-code modulation, phase-shift keying, differential phase shift keying, frequency shift keying; performance of analog and digital communication systems in the presence of noise.*

ENEE majors (09090) only.

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| 0101 | Zoltan Safar | Seats (Total: 17) |
| | TuTh 2:00pm - 3:15pm | JMP 2120 |

**ENEE425** **Digital Signal Processing**

(Perm req)

*Prerequisite: Minimum grade of C- in ENEE322 or ENEE323. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical), and permission of ENGR-Electrical & Computer Engineering department.*

*Sampling as a modulation process; aliasing; the sampling theorem; the Z-transform and discrete-time system analysis; direct and computer-aided design of recursive and nonrecursive digital filters; the Discrete Fourier Transform (DFT) and Fast Fourier Transform (FFT); digital filtering using the FFT; analog-to-digital and digital-to analog conversion; effects of quantization and finite-word-length arithmetic.*

ENEE majors (09090) only.

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|---|---|---|
| 0101 | Armand Makowski | Seats (Total: 30) |
| | TuTh 12:30pm - 1:45pm | AJC 2121 |

**ENEE436** **Foundations of Machine Learning**

(Perm req)

*Prerequisite: 1 course with a minimum grade of C- from (ENEE324, STAT400); and 1 course with a minimum grade of C- from (ENEE150, CMSC216); and permission of ENGR-Electrical & Computer Engineering department. Restriction: Permission of ENGR-Electrical & Computer Engineering department. And must be in one of the following programs (Engineering: Electrical; Engineering: Computer) ; or must be in the ECE Department's Machine Learning notation program. Credit only granted for: ENEE436, ENEE439M, or CMSC422. Formerly: ENEE439M.*

*A broad introduction to the foundations of Machine Learning (ML), as well as hands-on experience in applying ML algorithms to real-world data sets. Topics include various techniques in supervised and unsupervised learning, as well as applications to computer vision, data mining, and speech recognition.*

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|---|---|---|
| 0101 | Sanghamitra Dutta | Seats (Total: 30) |
| | MW 12:30pm - 1:45pm | AJC 2132 |

**ENEE440** **Microprocessors**

(Perm req)

*Prerequisite: ENEE350; and completion of all lower division technical courses in the EE curriculum. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).*

*Microprocessor architectures, instruction sets, and applications. Bus structures, memory, I/O interfacing. Assembly language programming, LSI device configuration, and the embedding of microprocessors in systems.*

ENEE majors only (09090).

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|---|---|---|
| 0101 | William Hawkins | Seats (Total: 35) |
| | TuTh 11:00am - 12:15pm | EGR 0135 |

**ENEE445** **Computer Laboratory**

(Perm req)

*Prerequisite: Minimum grade of C- in ENEE205 and ENEE350. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical); and permission of ENGR-Electrical & Computer Engineering department.*

*This laboratory course focuses on the hardware/software interface in computer systems. Hands-on experiments are used to teach design, construction, analysis, and measurement of both hardware and software for embedded systems. Projects emphasize using microcontrollers for control, sensing, and communication through various I/O devices.*

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|---|---|---|---|
| 0101 | William Hawkins | Seats (Total: 12) | |
| | Tu 12:30pm - 1:20pm | EGR 1110 | |
| | Th 2:00pm - 5:00pm | AVW 1424 | Lab |

**ENEE446** **Digital Computer Design**

(Perm req)

*Prerequisite: ENEE350; and completion of all lower-division technical courses in the EE curriculum. Restriction: Permission of ENGR-Electrical & Computer Engineering department. Credit only granted for: ENEE446 or CMSC411.*

*Hardware design of digital computers. Arithmetic and logic units, adders, multipliers and dividers. Floating-point arithmetic units. Bus and register structures. Control units, both hardwired and microprogrammed. Index registers, stacks, and other addressing schemes. Interrupts, DMA and interfacing.*

ENEE majors (09090) only.

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|---|---|---|
| 0101 | Manoj Franklin | Seats (Total: 60) |
| | MW 5:00pm - 6:15pm | CSI 2117 |

**ENEE457** **Computer Systems Security**

(Perm req)

*Prerequisite: Minimum grade of C- in ENEE350; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Electrical; Engineering: Computer) ; and permission of ENGR-Electrical & Computer Engineering department. Credit only granted for: CMSC414 or ENEE457.*

*Theoretical and practical aspects of computer systems security. Topics covered include symmetric/asymmetric encryption, message authentication, digital signatures, access control, as well as network security, web security and cloud security. Students acquire tools necessary for designing secure computer systems and programs and for defending against malicious threats (e.g., viruses, worms, denial of service).*

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|---|---|---|
| 0101 | Dana Dachman-Soled | Seats (Total: 60) |
| | MW 11:00am - 12:15pm | EGR 1108 |

**ENEE459A** **Topics in Computer Engineering; CAD Tools**

(Perm req)

*Selected topics of current importance in computer engineering.*

Prerequisite: ENEE245. Verilog or VDHL hardware description languages (HDLs) and graphical printed ciruit design CAD packages are used to create a digital system implemented on a printed circuit-board. A practical design for hardware incorporating a processor and interface devices is to be created by the student. Simulation is used to explore practical issues of system performance and device resource constraints, and a printed-circuit board proof-of-concept will be produced by the student.

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|---|---|---|
| 0101 | William Hawkins | Seats (Total: 12) |
| | Tu 9:30am - 10:20am<br>Contact instructor or department for details. | EGR 1110 |

**ENEE459B** **Topics in Computer Engineering; Reverse Engineering and Hardware Security Laboratory**

(Perm req)

*Selected topics of current importance in computer engineering.*

Prequisite: ENEE244, ENEE245, and ENEEE350 or permission of the instructor.

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|---|---|---|---|
| 0101 | Yonghwi Kwon<br>Tu 2:00pm - 3:15pm<br>Tu 3:30pm - 5:30pm | Seats (Total: 24)<br>EGR 0108<br>AVW 2446 | <br><br>Lab |
| 0102 | Yonghwi Kwon<br>Tu 2:00pm - 3:15pm<br>Th 3:30pm - 5:30pm | Seats (Total: 24)<br>EGR 0108<br>AVW 2446 | <br><br>Lab |

**ENEE459F** **Topics in Computer Engineering; Advanced Laboratory in FPGA System Design**

(Perm req)

*Selected topics of current importance in computer engineering.*

Prerequisite: ENEE245 and ENEE350. A sequel to ENEE245, using design tools (including Verilog) taught in ENEE245.

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|---|---|---|---|
| 0101 | Jerry Wu<br>Tu 5:00pm - 6:15pm<br>W 2:00pm - 4:50pm | Seats (Total: 11)<br>JMP 2222<br>AVW 1442 | <br><br>Lab |

**ENEE459P** **Topics in Computer Engineering; Parallel Algorithms**

(Perm req)

*Selected topics of current importance in computer engineering.*

Prerequisite: ENEE351 or CMSC351. Credit only granted for ENEE459P, ENEE651, or CMSC751. A presentation of the theory of parallel computers and parallel processing. Models of parallel processing and the relationships between these models. Techniques for the design and analysis of efficient parallel algorithms including parallel prefix, searching, sorting, graph problems, and algebraic problems. Theoretical limits of parallelism.

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| 0101 | Uzi Vishkin<br>TuTh 5:00pm - 6:15pm | Seats (Total: 25)<br>CSI 3120 | |

**ENEE460** **Control Systems**

(Perm req)

*Prerequisite: ENEE322; and (ENEE290, MATH240, or MATH461); and completion of all lower-division technical courses in the EE curriculum. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).*

*Mathematical models for control system components. Transform and time domain methods for linear control systems. Introductory stability theory. Root locus, bode diagrams and Nyquist plots. Design specifications in the time and frequency domains. Compensation design in the time and frequency domain. Introduction to sampled data systems.*

ENEE majors (09090) only.

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|---|---|---|---|
| 0101 | Kaiqing Zhang<br>TuTh 11:00am - 12:15pm | Seats (Total: 25)<br>EGR 3102 | |

**ENEE467** **Robotics Project Laboratory**

(Perm req)

*Prerequisite: Minimum grade of C- in ENAE450. Restriction: Must be in the Robotics and Autonomous Systems minor; and permission of Department of Electrical and Computer Engineering.*

*Teaches practical skills to build, control, and deploy robotic systems. Interdisciplinary groups of students develop real-world robotic systems, with emphasis on making a real robot do what one wants it to do.*

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|---|---|---|---|
| 0101 | William Levine<br>MW 3:30pm - 4:20pm<br>M 12:00pm - 2:50pm | Seats (Total: 14)<br>JMP 3201<br>KEB 3209 | <br><br>Lab |
| 0102 | William Levine<br>MW 3:30pm - 4:20pm<br>W 12:00pm - 2:50pm | Seats (Total: 14)<br>JMP 3201<br>KEB 3209 | <br><br>Lab |
| 0103 | William Levine<br>MW 3:30pm - 4:20pm<br>F 10:00am - 12:50pm | Seats (Total: 14)<br>JMP 3201<br>KEB 3209 | <br><br>Lab |
| 0104 | William Levine<br>MW 3:30pm - 4:20pm<br>F 1:00pm - 3:50pm | Seats (Total: 14)<br>JMP 3201<br>KEB 3209 | <br><br>Lab |

**ENEE474** **Power Systems**

(Perm req)

*Prerequisite: Minimum grade of C- in ENEE322 or ENEE323. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical), and permission of ENGR-Electrical & Computer Engineering department.*

*Interconnected power systems, transmission lines, load flow studies, unit commitment and economic dispatch. Three phase networks, machine models. Symmetrical components, fault analysis and unbalanced operation. Power system transients, stability and numerical methods in power system analysis.*

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|---|---|---|
| 0101 | David Bowen | Seats (Total: 30) |
| | TuTh 2:00pm - 3:15pm | KEB 1200 |

**ENEE476** **Renewable Energy**

(Perm req)

*Prerequisite: Minimum grade of C- in ENEE303 or ENEE304. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical), and permission of ENGR-Electrical & Computer Engineering department.*

*Solar Energy Conversion Systems: History of Photovoltaic (PV) Systems, PV Cell, Module and Array Models and Equivalent Circuits, Characteristic Resistance, Fill Factor, Effects of Parasitic Resistances, Mismatch Effects, Shading, Bypass Diodes, Sun Tracking Systems, Maximum Power Point Tracking (MPPT) Techniques, Isolated and Non-isolated Switch-mode DC/DC for PV Systems, Inverter Design and Control, Sizing the PV Panel and Battery Pack in PV Applications. Wind Energy Conversion Systems: Introduction to Wind Energy Harvesting, Horizontal and Vertical Wind Systems, Fundamentals of Wind Energy Harvesting Systems, Variable Speed and Fixed Speed Wind Energy Conversion Systems (WECS), Wind Turbines and Different Electrical Machines in Wind Applications, Induction Machine and Dynamic Model of Induction Machines, Synchronous Generators and Dynamic Model of SG, Control of Wind Energy Conversion Systems.*

Alternating face-to-face/online meeting. See instructor for details.

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|---|---|---|
| 0101 | Alireza Khaligh | Seats (Total: 60) |
| | MW 3:30pm - 4:45pm | KEB 1110 |

**ENEE486** **Optoelectronics Lab**

(Perm req)

*Prerequisite: Minimum grade of C- in ENEE205; or minimum grade of C- in ENEE206. And minimum grade of C- in PHYS271 and PHYS270; and must have earned a minimum grade of regular (letter) C- in all required 200-level ENEE courses; and permission of ENGR-Electrical & Computer Engineering department. Restriction: Must be in one of the following programs (Engineering: Computer; Engineering: Electrical).*

*Hands-on experience in performing measurements in optics and electro-optics. Basics of optics, light detectors, Fourier optics, gratings and spectrometers, pulsed dye lasers, fiber optics, electro-optics, and acousto-optics.*

Credit only granted for ENEE486, ENEE648D or ENEE789D.

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|---|---|---|---|
| 0101 | Mario Dagenais | Seats (Total: 7) | |
| | W 10:00am - 10:50am | EGR 1110 | |
| | Tu 2:00pm - 5:00pm | AVW 1366 | Lab |

**ENEE488** **Independent Study in Electrical and Computer Engineering**

(Perm req)

*The purpose is to provide students with an opportunity for independent study projects on advanced electrical and computer engineering topics. These projects typically involve academic investigations of technical themes that are not addressed in the established elective and special topics courses taught by the department on a regular basis. Study plans are tailored to students educational goals but are approved and supervised by faculty.*

Prerequisite: permission of department.

**Contact department for information to register for this course.**

**ENEE489I** **Topics in Electrophysics; SOLAR ENERGY CONVERSION**

(Perm req)

*Selected topics of current importance in electrophysics.*

This course covers the scientifically intriguing and industry-relevant optoelectronic devices, including lasers, solar cells, light-emitting diodes (LED), and photodetectors. The course is designed to walk the students through the device working principles, significant components of each device, state of the art of each device, and outlook of these device developments. The course aims to equip the students with necessary device knowledge for future careers on optoelectronic devices, in both academia and industry. There are no prerequisite courses for this course, though some backgrounds in semiconductors and pn junctions will be helpful.

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|---|---|---|
| 0101 | Cheng Gong | Seats (Total: 30) |
| | MW 11:00am - 12:15pm | AJC 2134 |

**ENEE489N** **Topics in Electrophysics; Antenna Design**

(Perm req)

*Selected topics of current importance in electrophysics.*

Prerequisites: ENEE381. Restriction: Permission of Electrical & Computer Engineering Department. A senior level hands-on course to expose students to the principles of antenna design and methods for generation and reception of GHz signals. The course includes theory and computer modeling, as well as fabrication and testing of small scale antennas used in naval communication systems. The course builds upon the concepts of electromagnetic wave introduced in ENEE381. Students will learn the state of the art in microwave instrumentation and techniques, along with simulation tools based on geometry. Students will analyze and test several prototype antenna configurations.

**Contact department for information to register for this course.**

**ENEE489R** **Topics in Electrophysics; Design of Passive and Low Power Microwave Devices**

(Perm req)

*Selected topics of current importance in electrophysics.*

Prerequisite: ENEE382. The goals of this course are to survey the field of microwave engineering, investigate the current applications of microwave systems, and understand the basic operating principles of the most common sources and components

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|---|---|---|
| 0101 | Wesley Lawson<br>TuTh 12:30pm - 1:45pm | Seats (Total: 20)<br>EGR 3106 |

**ENEE489W** **Topics in Electrophysics; Incubating Quantum Leaps**

(Perm req)

*Selected topics of current importance in electrophysics.*

Prerequisites: ENEE489Q or permission of instructor. A guided investigation and seminar course, in which advanced undergraduates assess potentially transformative applications of quantum technology. Students work in teams of two or three, with faculty guidance, to explore the research landscape across disciplines of interest to them, in order to assess promising new approaches for interdisciplinary, translational, pre-start-up, and/or start-up-ready quantum technology. Students read the relevant literature, examine the needs of potential technology users, and interact as needed with relevant faculty, students, postdocs, and potential customers and investors. For each of two projects per student team during the semester, a "case-study" is generated to assess and recommend possible paths forward for the quantum technology being assessed. Results can be provided to the researchers whose technology is assessed; and may inform new interdisciplinary research or translation.

| | | |
|---|---|---|
| 0101 | Ronald Walsworth<br>MW 12:30pm - 1:45pm | Seats (Total: 6)<br>EGR 2116 |

**ENEE498M** **Topics in Electrical Engineering; Mathematical Methods in Electrical Engineering**

(Perm req)

*Selected topics of current importance in electrical engineering.*

Prerequisite: Completion of MATH241 with a "C-" or better; completion of all 200-level ENEE courses. A fundamental understanding of applied mathematical techniques that are essential for solving problems in various fields of electrical and computer engineering. The topics that will be covered are complex variables/analysis, linear algebra, Laplace and Fourier transforms, discrete math, and differential equations. The emphasis is on the application of these mathematical tools to problems that students encounter in the upper-division electrical and computer engineering courses. Computational tools such as Wolfram Alpha and MATLAB will be introduced.

**Contact department for information to register for this course.**

**ENEE499** **Senior Projects in Electrical and Computer Engineering**

(Perm req)

*The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily experimental research project. In that case, the student will enroll in ENEE499L.*

ENEE majors (09090) only.

**Contact department for information to register for this course.**

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**ENEE499H** **Senior Projects in Electrical and Computer Engineering; Departmental Honors Thesis**

(Perm req)

*The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily experimental research project. In that case, the student will enroll in ENEE499L.*

**Contact department for information to register for this course.**

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**ENEE499L** **Senior Projects in Electrical and Computer Engineering**

(Perm req)

*The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily experimental research project. In that case, the student will enroll in ENEE499L.*

**Contact department for information to register for this course.**

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**ENEE499R** **Senior Projects in Electrical and Computer Engineering**

(Perm req)

*The purpose is to provide students with an opportunity to engage in independent research projects on advanced electrical and computer engineering topics. Projects are selected by students and supervised by faculty and other qualified mentors. While students may be required to acquire new skills or information in the course of completing a 499 project, the focus is to conduct an independent investigation of a technical theme by the student. The project may be used to satisfy the advanced lab requirement if it is approved as a primarily experimental research project. In that case, the student will enroll in ENEE499L.*

**Contact department for information to register for this course.**

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**ENEE600** **Solid State Electronics**

*Prerequisite: ENEE413; and must have background in elementary quantum mechanics. Credit only granted for: ENEE600 or ENEE793. Formerly: ENEE793.*

*Properties of crystals; energy bands: electron transport theory; conductivity and hall effect; statistical distributions; fermi level: impurities; non-equilibrium carrier distributions; normal modes of lattice vibration and thermal properties of crystals; tunneling phenomena; surface properties.*

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|---|---|---|---|
| 0101 | Agisilaos Iliadis | Seats (Total: 25) | |
| | TuTh 2:00pm - 3:15pm | EGR 2154 | |

**ENEE605** **Design and Fabrication of Micro-Electro-Mechanical Systems (MEMS)**

*Credit only granted for: ENEE605 or ENEE719R. Formerly: ENEE719R.*

*The goals are to explore the world of Micro-Electro-Mechanical Systems (MEMS) by understanding its design and fabrication aspects.*

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|---|---|---|---|
| 0101 | Reza Ghodssi | Seats (Total: 30) | |
| | MW 11:00am - 12:15pm | JMP 2202 | |

**ENEE611** **Integrated Circuit Design and Analysis**

*Recommended: ENEE610. Credit only granted for: ENEE611 or ENEE696. Formerly: ENEE696.*

*Active and passive elements used in semiconductor structures. Design application of linear and digital integrated circuits.*

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|---|---|---|---|
| 0101 | Timothy Horiuchi | Seats (Total: 30) | |
| | MW 2:00pm - 3:15pm | EGR 2116 | |

**ENEE620** **Random Processes in Communication and Control**

*Prerequisite: ENEE324; or students who have taken courses with comparable content may contact the department.*

*Introduction to random processes: characterization, classification, representation; Gaussian and other examples. Linear operations on random processes, stationary processes: covariance function and spectral density. Linear least square waveform estimating Wiener-Kolmogroff filtering, Kalman-Bucy recursive filtering: function space characterization, non-linear operations on random processes.*

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|---|---|---|---|
| 0101 | Alexander Barg | Seats (Total: 18) | |
| | TuTh 12:30pm - 1:45pm | AJC 2119 | |
| | F 11:00am - 11:50am | EGR 0135 | Discussion |

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|---|---|---|---|
| 0102 | Alexander Barg | Seats (Total: 18) | |
| | TuTh 12:30pm - 1:45pm<br>Th 5:00pm - 5:50pm | AJC 2119<br>MTH 0102 | Discussion |

**ENEE630** **Advanced Digital Signal Processing**

*Prerequisite: ENEE425. Corequisite: ENEE620. Credit only granted for: ENEE624 or ENEE630. Formerly: ENEE624.*

*This is the first-year graduate course in signal processing. The objective is to establish fundamental concepts of signal processing on multirate processing, parametric modeling, linear prediction theory, modern spectral estimation, and high-resolution techniques.*

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|---|---|---|---|
| 0101 | Behtash Babadi | Seats (Total: 40) | |
| | MW 3:30pm - 4:45pm<br>F 10:00am - 10:50am | EGR 1104<br>CSI 2120 | Discussion |

**ENEE641** **Mathematical Foundations for Computer Engineering**

*Credit only granted for: ENEE641 or ENEE759F. Formerly: ENEE759F.*

*Mathematical modeling, design, analysis and proof techniques related to computer engineering. Probability, logic, combinatorics, set theory, and graph theory, as they pertain to the design and performance of computer engineering systems. Techniques for the design and analysis of efficient computational methods from graph theory and networks. Understanding of the limits on the efficiency of such computational methods. Translation from mathematical theory to actual programming. The course emphasizes mathematical rigor.*

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|---|---|---|---|
| 0101 | Uzi Vishkin | Seats (Total: 30) | |
| | TuTh 2:00pm - 3:15pm | EGR 1104 | |

**ENEE646** **Digital Computer Design**

*Prerequisite: ENEE446; or students who have taken courses with comparable content may contact the department.*

*Concepts and techniques for design of computer systems with improved performance. Advanced I/O systems, memory organization, pipeland and parallel processors, bus bandwidth, processor/memory interconnections, cache memory, virtual memory, multiprocessors, performance evaluation.*

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|---|---|---|---|
| 0101 | Donald Yeung | Seats (Total: 30) | |
| | MW 12:30pm - 1:45pm | EGR 3106 | |

**ENEE651** **Parallel Algorithms**

*Prerequisite: CMSC451; or ENEE641; or students who have taken courses with comparable content may contact the department. Cross-listed with: CMSC751. Credit only granted for: ENEE459P, ENEE651, ENEE759K or CMSC751. Formerly: ENEE759K.*

*A presentation of the theory of parallel computers and parallel processing. Models of parallel processing and the relationships between these models. Techniques for the design and analysis of efficient parallel algorithms including parallel prefix, searching, sorting, graph problems, and algebraic problems. Theoretical limits of parallelism.*

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|---|---|---|
| 0101 | Uzi Vishkin | Seats (Total: 15) |
| | TuTh 5:00pm - 6:15pm | CSI 3120 |

**ENEE660 System Theory**

*Prerequisite: ENEE460 and MATH463; or students who have taken courses with comparable content may contact the department.*

*General systems models. State variables and state space. Linearity and its implications. Controllability and observability. State space structure and representation. Realization theory and algorithmic solutions. Parameterizations of linear systems; canonical forms. Basic results from stability theory. Stabilizability. Fine structure of linear multivariable systems; minimal indices and polynomial matrices. Interplay between frequency domain and state space.*

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|---|---|---|
| 0101 | John Baras | Seats (Total: 30) |
| | TuTh 3:30pm - 4:45pm | EGR 2154 |

**ENEE662 Convex Optimization**

*Recommended: MATH410. Credit only granted for: ENEE759F or ENEE662.*

*Focuses on recognizing, solving, and analyzing convex optimization problems. Convex sets, convex functions, convex and quasi-convex optimization problems. Duality theory and optimality conditions. Specific classes of problems including linear optimization (LP), semi-definite optimization (SDP), geometric programming. Algorithms for unconstrained and constrained optimization; interior-point methods. Applications in controls, communications, signal processing, statistics, and other areas.*

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|---|---|---|
| 0101 | Nuno Martins | Seats (Total: 35) |
| | MW 2:00pm - 3:15pm | EGR 1104 |

**ENEE680 Fundamentals of Electromagnetics**

*Prerequisite: ENEE381; or students who have taken courses with comparable content may contact the department.*

*Theoretical analysis and engineering applications of Maxwell's equations: boundary value problems of electrostatics and magnetostatics, dielectric and magnetic properties of matter, energy and momentum content of fields, introduction to EM wave propagation.*

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|---|---|---|
| 0101 | Mohammad Hafezi | Seats (Total: 25) |
| | MW 3:30pm - 4:45pm | EGR 2116 |

**ENEE690 Introduction to Quantum Mechanics**

*Prerequisite: ENEE381; or students who have taken courses with comparable content may contact the department.*

*Introduction to the Schroedinger equation, matrix formulations of quantum mechanics, identical particles, entanglement, approximation methods, symmetries. Applications to solid-state, atomic, and quantum information science.*

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|---|---|---|
| 0101 | Edo Waks | Seats (Total: 30) |
| | TuTh 9:30am - 10:45am | AJC 2132 |

**ENEE698Q** **Graduate Seminar; Colloquium Series**

*Every semester regular seminars are held in electrical science and in the six areas of specialization offered by the electrical engineering department. They may be taken, by arrangement with the student's advisor, for repeated credit.*

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|---|---|---|
| 0101 | Sennur Ulukus | Seats (Total: 80) |
| | F 3:30pm - 4:30pm | KEB 1110 |

**ENEE699** **Independent Studies in Electrical Engineering**

(Perm req)

*Supervised individual study or project, or supervised group study or project, at an advanced level, in electrical engineering.*

**Contact department for information to register for this course.**

**ENEE739Z** **Advanced Topics in Signal Processing; Computational Imaging**

Restriction: Must be in the Computer Science or Electrical and Computer Engineering Master's or Doctoral programs, or permission of instructor. Cross-listed with ENEE739Z. Credit only granted for CMSC848B or ENEE739Z. Introduces various computational imaging systems and the algorithms that underlie their operation. Particular emphasis will be placed on recently developed learning based reconstruction algorithms. This is a mixed lecture/seminar course.

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|---|---|---|
| 0101 | Christopher Metzler | Seats (Total: 30) |
| | MW 2:00pm - 3:15pm | IRB 1207 |

**ENEE759C** **Advanced Topics in Computer Engineering; Domain Specific Architecture**

*Topics, as announced every semester, from the field of computer engineering and its applications.*

Cross-listed with CMSC818J. Credit only granted for CMSC818J or ENEE759C.

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|---|---|---|
| 0101 | Bahar Asgari | Seats (Total: 30) |
| | MW 3:30pm - 4:45pm | CSI 3117 |

**ENEE759U** **Advanced Topics in Computer Engineering; Computer-Aided Design of Digital Circuits**

*Topics, as announced every semester, from the field of computer engineering and its applications.*

Prerequisite: ENEE245 and ENEE350; or students who have taken courses with comparable content may contact the Department. State-of-the-art techniques and algorithms for synthesis and verification of digital systems. High-level and architectural synthesis,decision and word-level algorithms, combinational and sequential logic optimization. Formal and simulation-based verification techniques; combinational and sequential equivalence checking; model and property checking; satisfiability (SAT) and satisfiability modulo theories (SMT).

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|---|---|---|
| 0101 | Cunxi Yu | Seats (Total: 30) |
| | MW 2:00pm - 3:15pm | EGR 2154 |

**ENEE759Z** **Advanced Topics in Computer Engineering; Federated Learning**

*Topics, as announced every semester, from the field of computer engineering and its applications.*

Prerequisite: ENEE436 or CMSC422; or students who have taken courses with comparable content may contact the Department. Cross-listed with CMSC848Z. Credit only granted for ENEE759Z or CMSC848Z. Principles and applications of federated learning. Federated optimization, statistical and system homogeneity models, variations of federated aggregation, security and privacy considerations, foundation models.

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|---|---|---|
| 0101 | Ang Li | Seats (Total: 30) |
| | MW 3:30pm - 4:45pm | EGR 0135 |

**ENEE762** **Stochastic Control**

*Prerequisite: ENEE620 and ENEE660; or students who have taken courses with comparable content may contact the department.*

*Stochastic control systems, numerical methods for the Ricatti equation, the separation principle, control of linear systems with Gaussian signals and quadratic cost, non-linear stochastic control, stochastic stability, introduction to stochastic games.*

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|---|---|---|
| 0101 | Perinkulam Krishnaprasad | Seats (Total: 20) |
| | TuTh 5:00pm - 6:15pm | AJC 2134 |

**ENEE789D** **Advanced Topics in Electrophysics; Optoelectronics Lab**

*Topics selected, as announced every semester, from the field of electrophysics and its applications.*

Prerequisite: Knowledge of electromagnetic theory at the undergraduate level. Credit only granted for ENEE486, ENEE648D or ENEE789D. Formerly: ENEE648D. Hands-on experience in performing measurements in optics and electro-optics. Basics of optics (reflection, refraction, diffraction), imaging, light detectors, gratings and spectrometers, fiber optics, electro-optics, acousto-optics, polarization, solar cells and displays, optical light sources (blackbody, fluorescent, LEDs, semiconductor lasers).

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|---|---|---|---|
| 0101 | Mario Dagenais | Seats (Total: 5) | |
| | W 10:00am - 10:50am | EGR 1110 | |
| | Tu 2:00pm - 5:00pm | AVW 1366 | Lab |
| | W 11:00am - 11:50am | EGR 1110 | Discussion |

**ENEE789W** **Advanced Topics in Electrophysics; Advanced Topics in Electrophysics: Incubating Quantum Leaps**

*Topics selected, as announced every semester, from the field of electrophysics and its applications.*

A guided investigation and seminar course in which students assess potentially transformative applications of quantum technology. Students work in teams of two or three, with faculty guidance, to explore the research landscape across disciplines of interest to them, in order to assess promising new approaches for interdisciplinary, translational, pre-start-up, and/or start-up-ready quantum technology. Students read the relevant literature, examine the needs of potential technology users, and interact as needed with relevant faculty, students, postdocs,and potential customers and investors. For each of two projects per student team during the semester, a "case-study" is generated to assess and recommend possible paths forward for the quantum technology being assessed. Results can be provided to the researchers whose technology is assessed; and may inform new interdisciplinary research or translation.

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|---|---|---|
| 0101 | Ronald Walsworth | Seats (Total: 12) |
| | MW 12:30pm - 1:45pm | EGR 2116 |

**ENEE791** **Quantum Electronics II**

*Nonlinear optical effects and devices, tunable coherent light sources: optical parametric oscillator; frequency conversion and dye laser. Ultrashort pulse generation and measurement, stimulated raman effect, and applications. Interaction of acoustic and optical waves, and holography.*

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|---|---|---|
| 0101 | Thomas Murphy | Seats (Total: 40) |
| | MW 2:00pm - 3:15pm | PHY 2208 |

**ENEE799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**ENEE889** **Teaching Workshop**

(Perm req)

*Provide training in education for senior PhD students who contemplate an academic career, and give them the opportunity to gain some teaching experience. Emphasis is on issues that are of special importance in electrical and computer engineering education.*

**Contact department for information to register for this course.**

**ENEE898** **Pre-Candidacy Research**

(Perm req)

*Provide training in education for senior PhD students who contemplate an academic career, and give them the opportunity to gain some teaching experience. Emphasis is on issues that are of special importance in electrical and computer engineering education.*

**Contact department for information to register for this course.**

**ENEE899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# ENES Engineering Science Fall 2024

**ENES100** **Introduction to Engineering Design**

(Perm req)

*Prerequisite: Must have math eligibility for MATH140 or higher.*

*Students work as teams to design and build a product using computer software for word-processing, spreadsheet, CAD, and communication skills.*

| | | |
|---|---|---|
| 0301 | Aris Cleanthous<br>MW 10:00am - 11:50am<br>Contact instructor or department for details. | Seats (Total: 40)<br>JMP 1116 |
| 0302 | Joshua Cocker<br>MW 10:00am - 11:50am<br>Contact instructor or department for details. | Seats (Total: 40)<br>JMP 1120 |
| 0401 | Catherine Hamel<br>TuTh 10:00am - 11:50am<br>Contact instructor or department for details. | Seats (Total: 40)<br>JMP 1116 |
| 0402 | Michael Galczynski<br>TuTh 10:00am - 11:50am<br>Contact instructor or department for details. | Seats (Total: 40)<br>JMP 1120 |
| 0501 | Richard Blanton<br>MW 12:00pm - 1:50pm<br>Contact instructor or department for details. | Seats (Total: 40)<br>JMP 1116 |
| 0502 | Joseph Beaudoin<br>MW 12:00pm - 1:50pm<br>Contact instructor or department for details. | Seats (Total: 40)<br>JMP 1120 |
| 0601 | Michael Galczynski<br>TuTh 12:00pm - 1:50pm<br>Contact instructor or department for details. | Seats (Total: 40)<br>JMP 1116 |

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|---|---|---|
| 0602 | Isabel Lloyd<br>TuTh 12:00pm - 1:50pm<br>Contact instructor or department for details. | Seats (Total: 40)<br>JMP 1120 |
| 0701 | Joshua Cocker<br>MW 2:00pm - 3:50pm<br>Contact instructor or department for details. | Seats (Total: 40)<br>JMP 1116 |
| 0702 | Michael Galczynski<br>MW 2:00pm - 3:50pm<br>Contact instructor or department for details. | Seats (Total: 40)<br>JMP 1120 |
| 0801 | Amy Karlsson<br>TuTh 2:00pm - 3:50pm<br>Contact instructor or department for details. | Seats (Total: 40)<br>JMP 1116 |
| 0802 | David Kriesberg<br>TuTh 2:00pm - 3:50pm<br>Contact instructor or department for details. | Seats (Total: 40)<br>JMP 1120 |
| 1001 | Jarred Young<br>TuTh 4:00pm - 5:50pm<br>Contact instructor or department for details. | Seats (Total: 40)<br>JMP 1116 |
| 1002 | Kevin Chiu<br>TuTh 4:00pm - 5:50pm<br>Contact instructor or department for details. | Seats (Total: 40)<br>JMP 1120 |
| 1201 | Daanish Maqbool<br>TuTh 6:00pm - 7:50pm<br>Contact instructor or department for details. | Seats (Total: 40)<br>JMP 1120 |
| FC01 | Joshua Cocker<br>MW 4:30pm - 6:20pm<br>Contact instructor or department for details.<br>*Restricted to students in Freshmen Connection. Freshmen Connection students must send an email to fc@umd.edu to request permission to enroll in this section.* | Seats (Total: 40)<br>JMP 1116 |
| FC02 | Ethan Burbridge<br>MW 4:30pm - 6:20pm<br>Contact instructor or department for details.<br>*Restricted to students in Freshmen Connection. Freshmen Connection students must send an email to fc@umd.edu to request permission to enroll in this section.* | Seats (Total: 40)<br>JMP 1120 |

**ENES102** **Mechanics I**

(Perm req)

*Corequisite: MATH140. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Formerly: ENES110.*

*The equilibrium of stationary bodies under the influence of various kinds of forces. Forces, moments, couples, equilibrium, trusses, frames and machines, centroids, moment of inertia, beams, friction, stress/strain, material properties. Vector and scalar methods are used to solve problems.*

Students must pay a $30 course materials fee

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|---|---|---|---|
| 0101 | Patrick McAvoy<br>MW 9:00am - 9:50am<br>F 9:00am - 10:50am | Seats (Total: 55)<br>EGR 1108<br>EGR 1108 | <br><br>Discussion |
| 0102 | Robert Bonenberger<br>MW 11:00am - 11:50am<br>F 11:00am - 12:50pm | Seats (Total: 55)<br>CSI 3117<br>EGR 0108 | <br><br>Discussion |
| 0103 | Jarred Young<br>MW 12:00pm - 12:50pm<br>F 12:00pm - 1:50pm | Seats (Total: 55)<br>CSI 3117<br>EGR 1108 | <br><br>Discussion |
| 0104 | Jarred Young<br>MW 2:00pm - 2:50pm<br>F 2:00pm - 3:50pm | Seats (Total: 55)<br>PLS 1140<br>EGR 1108 | <br><br>Discussion |

**ENES102H** **Mechanics I**

(Perm req)

*Corequisite: MATH140. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Formerly: ENES110.*

*The equilibrium of stationary bodies under the influence of various kinds of forces. Forces, moments, couples, equilibrium, trusses, frames and machines, centroids, moment of inertia, beams, friction, stress/strain, material properties. Vector and scalar methods are used to solve problems.*

Students must pay at $30 course materials fee.

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|---|---|---|---|
| 0101 | Kevin Calabro<br>MW 10:00am - 10:50am<br>F 10:00am - 11:50am | Seats (Total: 55)<br>EGR 1108<br>ATL 2400 | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 0201 | Kevin Calabro<br>MW 12:00pm - 12:50pm<br>F 12:00pm - 1:50pm | Seats (Total: 55)<br>ESJ 2309<br>ATL 1113 | <br><br>Discussion |
| 0301 | Kevin Calabro<br>MW 2:00pm - 2:50pm<br>F 2:00pm - 3:50pm | Seats (Total: 55)<br>MCB 1207<br>ATL 2324 | <br><br>Discussion |

**ENES113** **Virtus Living and Learning Community Seminar I**

*Restriction: Must be in first year Virtus program.*

*The seminar focuses on personal and professional development related to the field of engineering with a strong emphasis on clarifying career goals and decisions. Additional topics include an introduction to basic tools, undergraduate research opportunities, and campus and engineering resources.*

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|---|---|---|
| 0101 | Paige Smith, Jarred Young, Sam Murillo<br>W 4:00pm - 5:30pm | Seats (Total: 65)<br>ANS 0408 |

**ENES115** **FLEXUS Living and Learning Community Seminar I**

(Perm req)

*Restriction: Must be a first year FLEXUS Participant.*

*The seminar focuses on personal and professional development related to the field of engineering with a strong emphasis on clarifying career goals and decisions. Additional topics include an introduction to campus and engineering resources, basic tools, and undergraduate research opportunities. Students will discuss issues of concern through a variety of book readings, self-reflections, and panel discussions with practicing women engineers.*

| | | |
|---|---|---|
| 0101 | Paige Smith, Catherine Hamel, Sam Murillo<br>W 4:00pm - 5:30pm | Seats (Total: 65)<br>PHY 1201 |

**ENES138** **Equity and Inclusion in Engineering Design**

*Through deliberate reflections on the past and current patterns of exclusion and inclusion within engineering, you will develop skills for engaging in equitable and inclusive processes and practices that can transform your collaborations and approach to engineering and the design process. This course engages students, from multiple social identity groups, in facilitated dialogue that focus on the tensions, similarities, and differences of experience that exist within, between, and/or across groups.*

Restriction: Must be a student in the A. James Clark School of Engineering or in the Global Engineering Leadership minor. Credit only granted for: ENES338K, CHSE338K, or ENES138. Formerly: ENES338K. Through deliberate reflections on the past and current patterns of exclusion and inclusion within engineering, you will develop skills for engaging in equitable and inclusive processes and practices that can transform your collaborations and approach to engineering and the design process. This course engages students, from multiple social identity groups, in facilitated dialogue that focus on the tensions, similarities, and differences of experience that exist within, between, and/or across groups.

| | | |
|---|---|---|
| 0101 | Edward Eisenstein, Matthew Scassero, Paige Smith, Le-Marie Thompson<br>**Meets August 26, 2024 - October 10, 2024**<br>Tu 4:00pm - 6:00pm | Seats (Total: 32)<br><br>MTH 0105 |
| 0201 | LaShanna Young, Daniel Serrano, Erin Wessell, Freddie Dufresne<br>**Meets October 14, 2024 - December 15, 2024**<br>W 4:00pm - 6:00pm | Seats (Total: 32)<br><br>MTH 0105 |

**ENES138U** **Equity and Inclusion in Engineering Design; US Identity in a Global Context**

(Perm req)

*Through deliberate reflections on the past and current patterns of exclusion and inclusion within engineering, you will develop skills for engaging in equitable and inclusive processes and practices that can transform your collaborations and approach to engineering and the design process. This course engages students, from multiple social identity groups, in facilitated dialogue that focus on the tensions, similarities, and differences of experience that exist within, between, and/or across groups.*

**Contact department for information to register for this course.**

**ENES140** **Discovering New Ventures**

*Additional information: This course may count as an elective for a student at the University of Maryland, depending on the student's specific degree program. It cannot be counted towards the requirements for the Smith School of Business Entrepreneurship Fellow Program.*

*Students explore dynamic company startup topics by working in teams to design a new venture. This multi-disciplinary course helps students to learn the basic business, strategy, and leadership skills needed to launch new ventures. Topics include learning how to assess the feasibility of a startup venture, as well as how to apply best practices for planning, launching, and managing new companies. Students discuss a wide range of issues of importance and concern to entrepreneurs and learn to recognize opportunities, assess the skills and talents of successful entrepreneurs, and learn models that help them navigate uncertainty.*

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|---|---|---|
| 0101 | James Green<br>Class time/details on ELMs | Seats (Total: 350)<br>ONLINE |
| 0201 | James Green<br>Class time/details on ELMs | Seats (Total: 350)<br>ONLINE |
| 0301 | James Green<br>Class time/details on ELMs | Seats (Total: 250)<br>ONLINE |
| 0401 | James Green<br>Class time/details on ELMs | Seats (Total: 250)<br>ONLINE |
| 0501 | James Green<br>Class time/details on ELMs | Seats (Total: 250)<br>ONLINE |
| 0601 | James Green<br>Class time/details on ELMs | Seats (Total: 250)<br>ONLINE |
| FC01 | Michael Pratt<br>MW 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 100)<br>ESJ 0224 |

**ENES181** **Engineering & The Grand Challenges**

*Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; and must be a new freshman or transfer student.*

*Introduction to the various fields of engineering and the necessary context for students to fully engage in selected National Academy of Engineering's Grand Challenges such as economical solar energy, carbon sequestration, access to clean water, engineering better medicines, restoring urban infrastructure and personalized learning. The lectures and activities will provide an introduction to the engineering disciplines, NAE Grand Challenges, STEM cultures, and research.*

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|---|---|---|
| 0101 | Samuel Graham<br>W 4:00pm - 4:50pm | Seats (Total: 100)<br>EGR 1202 |

**ENES190H** **Introduction to Design and Quality**

*Restriction: Must be in the Quest program. Cross-listed with: BMGT190. Credit only granted for: BMGT190 or ENES190.*

*QUEST students learn and apply design practices to design new products and services. Working in multidisciplinary teams, students use quality and process improvement methods to identify, analyze, and recommend solutions to real-world problems.*

First course in a sequence of four Total Quality Program Courses. Restricted to QUEST Honors Program students. Cross-listed with ENES190H.

*A Fearless Ideas Course from the Academy for Innovation & Entrepreneurship (AIE): http://ter.ps/iamFEARLESS  Click here for more information on the Fearless Ideas Courses.*

| | | | |
|---|---|---|---|
| 0101 | Christopher Troilo<br>TuTh 12:30pm - 1:45pm<br>Tu 6:00pm - 7:50pm | Seats (Total: 45)<br>VMH 1407<br>ESJ 2101 | Discussion |

**ENES200** **Technology and Consequences: Engineering, Ethics and Humanity**

*Credit only granted for: ENEE200 or ENES200.*

*What makes a technology socially responsible? At UMD, the Fearless Ideas campaign asks us to aim our enthusiasm for technology at big real problems. At the same time, we are coming to appreciate the increasingly complex nature of technological systems as they become integrated into all forms of infrastructure, we realize they may be unpredictable, interdependent on social and biological systems, and have unintended consequences. In this midst of this complexity, people make decisions with far reaching impacts. How then do we follow our passion for technology and innovation but also stay skeptical in a way that allows us to consider the potential and shortcomings of technology? Designed for both engineering and non-engineering students wishing to explore and assess the impact of engineering technology on society and the role of society in generating that technology.*

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|---|---|---|---|
| 0101 | Timothy Reedy<br>TuTh 9:30am - 10:45am<br>F 9:00am - 10:15am | Seats (Total: 16)<br>ESJ 2212<br>ATL 1434 | Discussion |
| 0102 | Timothy Reedy<br>TuTh 9:30am - 10:45am<br>F 10:30am - 11:45am | Seats (Total: 16)<br>ESJ 2212<br>ATL 1434 | Discussion |
| 0103 | Timothy Reedy<br>TuTh 9:30am - 10:45am<br>F 12:00pm - 1:15pm | Seats (Total: 16)<br>ESJ 2212<br>ATL 1434 | Discussion |
| 0104 | Timothy Reedy<br>TuTh 9:30am - 10:45am<br>F 1:30pm - 2:45pm | Seats (Total: 15)<br>ESJ 2212<br>ATL 1434 | Discussion |
| 0105 | Timothy Reedy<br>TuTh 9:30am - 10:45am<br>F 3:00pm - 4:15pm | Seats (Total: 15)<br>ESJ 2212<br>ATL 1434 | Discussion |

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|---|---|---|---|
| 0201 | Dennis Frezzo<br>TuTh 2:00pm - 3:15pm<br>F 9:00am - 10:15am | Seats (Total: 16)<br>ESJ 2212<br>ESJ B0322 | Discussion |
| 0202 | Dennis Frezzo<br>TuTh 2:00pm - 3:15pm<br>F 10:30am - 11:45am | Seats (Total: 16)<br>ESJ 2212<br>ESJ B0322 | Discussion |
| 0203 | Dennis Frezzo<br>TuTh 2:00pm - 3:15pm<br>F 12:00pm - 1:15pm | Seats (Total: 16)<br>ESJ 2212<br>ESJ B0322 | Discussion |
| 0204 | Dennis Frezzo<br>TuTh 2:00pm - 3:15pm<br>F 1:30pm - 2:45pm | Seats (Total: 15)<br>ESJ 2212<br>ESJ B0322 | Discussion |
| 0205 | Dennis Frezzo<br>TuTh 2:00pm - 3:15pm<br>F 3:00pm - 4:15pm | Seats (Total: 15)<br>ESJ 2212<br>ESJ B0322 | Discussion |
| 0301 | Christine Alexander<br>TuTh 3:30pm - 4:45pm<br>F 9:00am - 10:15am | Seats (Total: 16)<br>ESJ 2212<br>ESJ 2309 | Discussion |
| 0302 | Christine Alexander<br>TuTh 3:30pm - 4:45pm<br>F 10:30am - 11:45am | Seats (Total: 16)<br>ESJ 2212<br>ESJ 2309 | Discussion |
| 0303 | Christine Alexander<br>TuTh 3:30pm - 4:45pm<br>F 12:00pm - 1:15pm | Seats (Total: 16)<br>ESJ 2212<br>ESJ 2309 | Discussion |
| 0304 | Christine Alexander<br>TuTh 3:30pm - 4:45pm<br>F 1:30pm - 2:45pm | Seats (Total: 15)<br>ESJ 2212<br>ESJ 2309 | Discussion |
| 0305 | Christine Alexander<br>TuTh 3:30pm - 4:45pm<br>F 3:00pm - 4:15pm | Seats (Total: 15)<br>ESJ 2212<br>ESJ 2309 | Discussion |

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|---|---|---|---|
| 0401 | Roan Parrish<br>TuTh 11:00am - 12:15pm<br>F 9:00am - 10:15am | Seats (Total: 16)<br>ESJ 1224<br>HJP 2217 | Discussion |
| 0402 | Roan Parrish<br>TuTh 11:00am - 12:15pm<br>F 10:30am - 11:45am | Seats (Total: 16)<br>ESJ 1224<br>HJP 2217 | Discussion |
| 0403 | Roan Parrish<br>TuTh 11:00am - 12:15pm<br>F 12:00pm - 1:15pm | Seats (Total: 16)<br>ESJ 1224<br>ESJ B0320 | Discussion |
| 0404 | Roan Parrish<br>TuTh 11:00am - 12:15pm<br>F 1:30pm - 2:45pm | Seats (Total: 15)<br>ESJ 1224<br>ESJ B0320 | Discussion |
| 0405 | Roan Parrish<br>TuTh 11:00am - 12:15pm<br>F 3:00pm - 4:15pm | Seats (Total: 15)<br>ESJ 1224<br>HJP 2217 | Discussion |
| 0501 | Alexandra Harlig<br>TuTh 2:00pm - 3:15pm<br>F 10:30am - 11:45am | Seats (Total: 16)<br>AJC 2134<br>EGR 3111 | Discussion |
| 0502 | Alexandra Harlig<br>TuTh 2:00pm - 3:15pm<br>F 3:00pm - 4:15pm | Seats (Total: 16)<br>AJC 2134<br>EGR 3114 | Discussion |

**ENES210** **Entrepreneurial Opportunity Analysis and Decision-Making in 21st Century Technology Ventures**

*Credit only granted for: ENES210 or ENES461.*

*This multi-disciplinary course helps students learn the principles of entrepreneurial opportunity analysis and decision-making in an increasingly dynamic and technically-inclined society. Emphasis is placed on how aspiring technology entrepreneurs can develop their entrepreneurial perspectives to develop winning entrepreneurial plans for their future ventures.*

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|---|---|---|---|
| 0101 | James Green, Michael Pratt<br>M 9:00am - 9:50am<br>Class time/details on ELMs | Seats (Total: 120)<br>ESJ 1202<br>ONLINE | |

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|---|---|---|
| 0201 | Michael Pratt, James Green<br>M 10:00am - 10:50am<br>Class time/details on ELMs | Seats (Total: 120)<br>ESJ 1202<br>ONLINE |
| 0301 | James Green, Michael Pratt<br>M 1:00pm - 1:50pm<br>Class time/details on ELMs | Seats (Total: 120)<br>ESJ 1202<br>ONLINE |
| 0401 | James Green, Michael Pratt<br>M 2:00pm - 2:50pm<br>Class time/details on ELMs | Seats (Total: 120)<br>ESJ 1202<br>ONLINE |
| 0501 | James Green<br>W 9:00am - 9:50am<br>Class time/details on ELMs | Seats (Total: 120)<br>ESJ 1202<br>ONLINE |
| 0601 | James Green<br>W 10:00am - 10:50am<br>Class time/details on ELMs | Seats (Total: 120)<br>ESJ 1202<br>ONLINE |
| 0701 | James Green<br>W 1:00pm - 1:50pm<br>Class time/details on ELMs | Seats (Total: 120)<br>ESJ 1202<br>ONLINE |
| 0801 | James Green<br>W 2:00pm - 2:50pm<br>Class time/details on ELMs | Seats (Total: 120)<br>ESJ 1202<br>ONLINE |

**ENES213** **Virtus Living and Learning Community Seminar III**

(Perm req)

*Prerequisite: ENES113. Restriction: Must be a participant in the second year of the Virtus program.*

*The seminar focuses on personal, academic and professional success by cultivating leadership skills, developing academic and technical ability and encouraging self awareness, identifying and employing strategies for academic and professional success, further enhancing career development through networking and mentoring and developing awareness of diversity issues.*

| | | |
|---|---|---|
| 0101 | Paige Smith, Tyler Huddleston, Sam Murillo<br>Th 4:00pm - 5:30pm | Seats (Total: 30)<br>EGR 1108 |

**ENES215** **FLEXUS Living and Learning Community Seminar III**

(Perm req)

*Prerequisite: ENES115 and ENES116. Restriction: Must be a second year FLEXUS participant.*

*The seminar focuses on personal, academic and professional success by cultivating leadership skills, developing self-confidence and self-efficacy in academic and technical ability and encouraging self awareness, identifying and employing strategies for academic and professional success, further enhancing career development through networking, mentoring and role modeling, and developing awareness of diversity issues, specifically gender diversity.*

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|---|---|---|---|
| 0101 | Sam Murillo, Paige Smith, Samantha Sabihi<br>Th 4:00pm - 5:30pm | Seats (Total: 30)<br>EGR 1108 | |

**ENES220** **Mechanics II**

(Perm req)

*Prerequisite: Minimum grade of C- in ENES102; and (MATH141 and PHYS161). Restriction: Must be in a major in ENGR-A. James Clark School of Engineering; and must not be in Engineering: Electrical program.*

*Stress and deformation of solids-rods, beams, shafts, columns, tanks, and other structural, machine and vehicle members. Topics include stress transformation using Mohr's circle; shear and moment diagrams; derivation of elastic curves; and Euler's buckling formula. Design problems related to this material are given in lab.*

Students must pay a $35 course materials fee.

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|---|---|---|---|
| 0101 | Thomas Beigel<br>MW 9:00am - 9:50am<br>Class time/details on ELMs<br>F 9:00am - 10:50am | Seats (Total: 50)<br>EGR 0108<br>ONLINE<br>CSI 2117 | Discussion |
| 0102 | Andres Rubiano Acosta<br>MW 9:00am - 9:50am<br>F 9:00am - 10:50am | Seats (Total: 50)<br>CSI 1121<br>SPH 1303 | Discussion |
| 0201 | Andres Rubiano Acosta<br>MW 12:00pm - 12:50pm<br>F 12:00pm - 1:50pm | Seats (Total: 50)<br>PHY 1204<br>PHY 1204 | Discussion |
| 0301 | Teng Li<br>MW 10:00am - 10:50am<br>F 10:00am - 11:50am | Seats (Total: 50)<br>ATL 2428<br>PHY 4221 | Discussion |

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|---|---|---|---|
| 0401 | Thomas Beigel<br>MW 2:00pm - 2:50pm<br>Class time/details on ELMs<br>F 2:00pm - 3:50pm | Seats (Total: 50)<br>BPS 1243<br>ONLINE<br>CSI 2117 | Discussion |
| 0501 | Robert Bonenberger<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 2:50pm | Seats (Total: 50)<br>PHY 4221<br>PHY 4221 | Discussion |
| 0601 | Thomas Beigel<br>MW 11:00am - 11:50am<br>Class time/details on ELMs<br>F 11:00am - 12:50pm | Seats (Total: 53)<br>PHY 4221<br>ONLINE<br>HJP 2242 | Discussion |

**ENES221** **Dynamics**

(Perm req)

*Prerequisite: Minimum grade of C- in ENES102; and (MATH141 and PHYS161). Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.*

*Systems of heavy particles and rigid bodies at rest and in motion. Force-acceleration, work-energy and impulse-momentum relationships. Motion of one body relative to another in a plane and in space.*

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|---|---|---|---|
| 0101 | Harry Dankowicz<br>MW 10:00am - 10:50am<br>F 10:00am - 11:50am | Seats (Total: 50)<br>PHY 1204<br>KEB 1110 | Discussion |
| 0103 | Ken Kiger<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 2:50pm | Seats (Total: 50)<br>CSI 3117<br>ANS 0408 | Discussion |
| 0104 | Patrick McAvoy<br>MW 12:00pm - 12:50pm<br>F 12:00pm - 1:50pm | Seats (Total: 50)<br>SPH 1303<br>CSI 2117 | Discussion |
| 0105 | Andres Rubiano Acosta<br>MW 2:00pm - 2:50pm<br>F 3:00pm - 4:50pm | Seats (Total: 50)<br>BPS 1236<br>PHY 4221 | Discussion |
| 0107 | Patrick McAvoy<br>MW 2:00pm - 2:50pm<br>F 3:00pm - 4:50pm | Seats (Total: 50)<br>SPH 1303<br>SPH 1303 | Discussion |

**ENES232** **Thermodynamics**

*Prerequisite: PHYS261 and PHYS260. Restriction: Must be in a major in ENGR-A. James Clark School of Engineering. Credit only granted for: BIOE232, CHBE301, ENCH300, ENES232, ENME320, or ENME232. Formerly: ENME232 and ENME320.*

*Introduction to thermodynamics. Thermodynamic properties of matter. First and second laws of thermodynamics, cycles, reactions, and mixtures.*

For all sections of ENES 232 there will be common midterm examinations on periodic Thursdays from 7:00-8:15pm. As such, this time should be held available on the course schedule.

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|---|---|---|---|
| 0101 | Catherine Hamel<br>MW 9:00am - 9:50am<br>F 9:00am - 10:50am<br>Th 7:00pm - 8:15pm | Seats (Total: 60)<br>ESJ 2212<br>ESJ 1215<br>Location: TBA | <br><br>Discussion<br>Discussion |
| 0301 | Paul Anderson<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 2:50pm<br>Th 7:00pm - 8:15pm | Seats (Total: 60)<br>CSI 2117<br>EGR 0108<br>Location: TBA | <br><br>Discussion<br>Discussion |

**ENES240** **Ethical, Policy and Social Implications of Science and Technology**

*Restriction: Must be in the Science, Technology, Ethics and Policy minor. Cross-listed with: PLCY240. Credit only granted for: ENES240 or PLCY240.*

*Asks students to think about how society should manage complexity, transformation, and uncertainty with an eye on developing a broader sense of ethics and social responsibility. Introduces analytical frameworks, concepts, and data collection techniques that interdisciplinary scholars use to map relationships among science, technology and society and generate important questions about the future of society.*

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|---|---|---|
| 0101 | Timothy Reedy<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>ATL 1434 |
| 0201 | Roan Parrish<br>TuTh 3:30pm - 4:45pm | Seats (Total: 30)<br>EGR 0108 |

**ENES317** **Introduction to Leadership in Engineering, Science, and Technology**

*Restriction: Must be in the Minor in Global Engineering Leadership(#EN09). Additional information: Students not meeting restriction requirements should add themselves to the course holdfile. Restrictions DO NOT apply to winter and summer terms.*

*Develop a comprehensive overview and introduction to leadership and organizational development. Students will reflect on their own leadership experiences, develop a strong foundational knowledge of leadership theory, and advance their capacities in effectively leading teams. Students will connect leadership theory to practice by engaging in case study analysis and critique leadership practices enacted within engineering and technology settings. Students will complete self-assessments to better understand their own leadership strengths and refine their approaches to leadership by incorporating theories covered in this course.*

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|---|---|---|
| 0101 | Darren Pierre<br>M 5:00pm - 7:30pm | Seats (Total: 45)<br>HJP 2242 |

**ENES390H** **Designing Innovative Systems**

*Prerequisite: ENES190, BMGT190, ENED290 or BMGT290. Restriction: Must be in the QUEST program. Cross-listed with: ENED390. Credit only granted for: BMGT390, ENES390 or ENED390. Formerly: ENES390.*

*The QUEST systems thinking course challenges students to analyze how processes interact in larger systems. Students will learn how to use process improvement tools and a systems thinking approach to solve problems and design innovative solutions. By drawing upon their multidisciplinary backgrounds, students will be able to understand and reframe problems from multiple perspectives to uncover new solutions.*

Restricted to QUEST Honors Program students. Cross-listed with BMGT390H.

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|---|---|---|
| 0101 | David Ashley<br>M 5:00pm - 7:40pm | Seats (Total: 60)<br>VMH 1308 |

**ENES397** **Mentoring Multidisciplinary Teams**

*Restriction: Restricted to QUEST Program (TQMP) students. Cross-listed with: BMGT397. Credit only granted for: BMGT397 or ENES397.*

*QUEST students practice essential skills for mentoring and coaching multidisciplinary teams. These include effective communications, facilitation, conflict resolution, and the ability to motivate. Students will practice these skills as mentors for student teams from BMGT/ENES 190H. In the process, they will strengthen their knowledge of design and quality techniques.*

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|---|---|---|
| 0101 | Emily Marks<br>Tu 5:00pm - 7:40pm | Seats (Total: 9)<br>ESJ 2101 |

**ENES401** **Entrepreneurial Design Realization**

(Perm req)

*Restriction: Must have senior standing and permission of instructor. Cross-listed with: ENME401. Credit only granted for: ENME401, ENME489B or ENES401. Formerly: ENME489B.*

*The vision for this course, and an aspect that makes it unique, is to expose students to the opportunities and challenges of bringing a product design to reality (entrepreneurship). The emphasis is on environmentally and socially sustainable projects. The end-product of this course will be full-scale implementations or complete design "packages" that can be taken to potential stakeholders.*

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|---|---|---|
| 0201 | Vincent Nguyen | Seats (Total: 18) |
| | TuF 3:00pm - 4:15pm | EGL 0105 |

**ENES424** **Engineering Leadership Capstone: Inclusive Leadership in Addressing Organizational & Societal Challenges**

*Prerequisite: ENES472 and ENES317. Restriction: Must be in the Global Engineering Leadership minor (#EN09).*

*The Minor in Global Engineering Leadership is designed to bring together one's understanding of leadership, organizations, culture, and global studies and apply this synthesized learning to a capstone project. The project will provide real-world application of global leadership principles to address an organizational or societal need. Students will utilize an inclusive leadership and global mindset to propose a big idea which brings about a positive organizational or societal change.*

| | | |
|---|---|---|
| 0101 | Darren Pierre | Seats (Total: 30) |
| | Tu 5:00pm - 6:30pm | AJC 2119 |
| | Class time/details on ELMs | ONLINE |

**ENES428** **Engineering Research for Exchange Students**

(Perm req)

*Directed research within the Clark School of Engineering for international exchange students.*

**Contact department for information to register for this course.**

**ENES434** **Creating Historic Woodwinds**

(Perm req)

*Jointly offered with: MUSC434. Credit only granted for: MUSC434, ENES434.*

*In this class, students will learn the art of woodworking and blend techniques of modern and historic instrument-making methods. Using wood lathes, metalworking tools, 3d scanners and selective laser sintering 3d printers. Student teams will first train to acquire the skills needed to use fabrication equipment. Each mixed team will then share their individual discipline's skills to help contribute to the creation of a completed musical instrument. Along the way, we'll explore the historical and cultural context of instrument making and the musical period.*

| | | |
|---|---|---|
| 0101 | Robert DiLutis | Seats (Total: 7) |
| | Contact instructor or department for details. | |

**ENES440** **Science, Technology, Ethics, and Policy: Minor Program Capstone**

*Prerequisite: ENES240 and 2 courses from the STEP minor elective list. Restriction: Must be in the Science, Technology, Ethics, and Policy minor. Additional information: This is the culminating course the STEP minor program.*

*Capstone research seminar for students in the Science, Technology, Ethics, and Policy Minor program.*

This is the culminating course for the STEP minor program.

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|---|---|---|
| 0101 | Timothy Reedy, Rexanah Wyse Morrissette<br>M 5:00pm - 7:30pm | Seats (Total: 25)<br>AJC 2121 |

**ENES461** **Advanced Entrepreneurial Opportunity Analysis in Technology Ventures**

*Credit only granted for: ENES210 or ENES461.*

*Explores the factors that influence entrepreneurial opportunity analysis in technology-based ventures. Uses a cognitive theoretical framework to examine the integration of motivation, emotions and information processing modes to make complex entrepreneurial decisions in technology venture environments.*

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|---|---|---|
| 0101 | James Green<br>Class time/details on ELMs | Seats (Total: 305)<br>ONLINE |
| 0201 | James Green<br>Class time/details on ELMs | Seats (Total: 260)<br>ONLINE |

**ENES463** **Strategies for Managing Innovation**

(Perm req)

*Restriction: Permission of ENGR-Maryland Technology Enterprise Institute. Credit only granted for: ENES463, BMGT467, SMLP473 or HLMN472. Additional information: Course may not be used to fulfill any BMGT major or minor program requirement.*

*Emphasizes how the technology entrepreneur can use strategic management of innovation and technology to enhance firm performance. Examines the process of technological change, the ways that firms come up with innovations, the strategies that firms use to benefit from innovation, and the process of formulating technology strategy. Provides frameworks for analyzing key aspects of these industries and teaches students how to apply these frameworks.*

| | | |
|---|---|---|
| 0101 | Sharon Flank<br>Class time/details on ELMs | Seats (Total: 38)<br>ONLINE |

**ENES472** **Leading Global Teams and Engaging Across Cultures in Business, Engineering, and Technology**

*Restriction: Sophomore standing or higher; must be a minor in Global Engineering Leadership (#EN09), Global Poverty (#AG06), Global Terrorism Studies (#BS07), or International Development and Conflict Management (#BS02). Credit only granted for: ENES472, SLLC471, or SLLC473. Additional information: Students not meeting restriction requirements should add themselves to the course holdfile. Restrictions DO NOT apply to winter and summer terms.*

*Develop global leadership capacities and an understanding of the cultural aspects pertaining to industry and international business. In a globalized world, the ability to work, lead and communicate in culturally diverse settings has become a core component to leadership. Through real-world examples, research, and simulations, students will increase their self-awareness and understanding of culture and how culture influences attitudes, behaviors, and practices at the individual, organizational, or societal levels. Students will develop the skills necessary to navigate, negotiate, and lead cross-cultural engagements and teams. The course content is relevant and applicable to anyone interested in developing cross-cultural leadership competencies and cultivating a global mindset.*

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|---|---|---|
| 0101 | Darren Pierre<br>Th 5:00pm - 6:30pm<br>Class time/details on ELMs | Seats (Total: 50)<br>HJP 2242<br>ONLINE |

**ENES480 Engineering Honors Seminar I**

*Restriction: Must be in College of Engineering Honors; and junior standing or higher.*

*Introduction to engineering leadership, professionalism, and ethics. Discussions of leadership style, elements of success, professional communication, codes of ethics, handling of ethical dilemmas, and the characteristics of a professional.*

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|---|---|---|
| 0101 | Wesley Lawson<br>F 10:00am - 10:50am | Seats (Total: 12)<br>EGR 1110 |
| 0102 | Wesley Lawson<br>F 1:00pm - 1:50pm | Seats (Total: 12)<br>CHE 2116 |
| 0103 | Wesley Lawson<br>F 11:00am - 11:50am | Seats (Total: 12)<br>EGR 1110 |

**ENES489A Special Topics in Engineering; Applied Quantitative Analysis**

*Special topics in engineering.*

Restricted to QUEST Honors Program students. Credit granted for BMGT438A or ENES489A.

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|---|---|---|
| 0101 | Maria Bardossy<br>MW 2:00pm - 3:15pm | Seats (Total: 50)<br>VMH 1308 |

**ENES490H QUEST Capstone Professional Practicum**

*Prerequisite: ENES390 or BMGT390. Cross-listed with: BMGT490. Credit only granted for: BMGT490 or ENES490.*

*The capstone course for the QUEST Honors Program provides students with an opportunity to learn in multidisciplinary teams of business, engineering, and science students in a real-world setting. Companies engage teams of QUEST students with real organizational challenges and dedicate resources to help students address these problems. Student teams must enhance their skills in quality management, process improvement, and systems design and will apply these to add value to a client. In the process, students will improve their teamwork skills.*

Fourth course in a sequence of four Total Quality Program Courses. Restricted to QUEST Honors Program students.

| | | |
|---|---|---|
| 0101 | Maria Bardossy, David Ashley | Seats (Total: 45) |
| | W 5:00pm - 7:40pm | VMH 1308 |
| | Contact instructor or department for details. | |

**ENES491** **Scoping Experiential Learning Projects**

*Prerequisite: BMGT190 or ENES190. Restriction: Restricted to QUEST Program (TQMP) students. Cross-listed with: BMGT491. Credit only granted for: BMGT491 or ENES491.*

*QUEST students cultivate relationships with new and current corporate partners and prepare project scopes for QUEST's introductory course, BMGT/ENES 190H, and capstone course, BMGT/ENES 490H. Requires independent work communicating with clients and class visits to a variety of potential project sites.*

Cross-listed with BMGT491.

| | | |
|---|---|---|
| 0101 | Jessica Roffe | Seats (Total: 9) |
| | Tu 11:00am - 1:00pm | VMH 3330H |
| | Contact instructor or department for details. | |

**ENES498R** **Special Topics in Entrepreneurship; Fearless Founders: New Venture Practicum**

(Perm req)

*This entrepreneurship seminar and case study-based course will explore technology entrepreneurship with a focus on leadership, marketing, team-building, and management of new technology ventures and assumes baseline knowledge of entrepreneurship. Students will learn skills needed to succeed as a technology entrepreneur and how to apply best practices for planning, launching, and growing new companies. This course is a requirement of the Hinman CEOs program.*

| | | |
|---|---|---|
| 0101 | Le-Marie Thompson | Seats (Total: 25) |
| | M 5:00pm - 7:40pm | VMH 1311 |

**ENES602** **Future Faculty Program Seminar II**

(Perm req)

*Restriction: Must be in the Clark School Future Faculty Program.*

*Effective teaching techniques. Basic principles of education and learning. Developing a course; promoting active learning, problem solving and critical thinking; designing exam and assignments; and communicating effectively with students.*

This course is only open to students in the Clark School Future Faculty Program or by permission of Department.

| | | |
|---|---|---|
| 0101 | Amy Karlsson | Seats (Total: 25) |
| | M 2:00pm - 3:15pm | MTH B0425 |

**ENES604** **Future Faculty Program Teaching Practicum**

(Perm req)

*Prerequisite: ENES602. Restriction: Must be a graduate student in the Clark School Future Faculty Program; and students for whom English is not the native language must pass the Maryland English Institute ITA Evaluation prior to enrolling in this course.*

*Graduate students will co-teach a course under supervision of a faculty mentor. Graudate students will be involved in all aspects of the course including development of syllabus, presenting lectures, writing and grading examiniations, and evaluating the students in the course.*

| | | |
|---|---|---|
| 0101 | Min Wu | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**ENES660** **Fundamentals of Product Management**

*Restriction: Must be in the Product Management Master of Professional Studies program; or permission of Maryland Technology Enterprise Institute.*

*Provides a comprehensive survey of product management and its growing role in producing technology-driven products that customers love. Guides students through the product lifecycle and market lifecycle, diving into the competencies needed at each stage. Topics include startup and corporate strategy, product strategy, vision setting and evangelism, development lifecycle approaches based on customer involvement and product stage, the various types of innovation at each stage of the lifecycle, and how the product manager leads the team through it all. Learn the basics of customer discovery, product discovery, product delivery, and the core-context model for managing products through maturity.*

| | | |
|---|---|---|
| PLM1 | Damien Peters | Seats (Total: 60) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Students in the MPS in Product Management may register without permission. All other graduate students may contact mppm@umd.edu for permission to enroll. Golden ID students are not eligible for this section.* | |

**ENES662** **Innovative Ideas and Concept Development**

*Restriction: Must be in the Technology Entrepreneurship and Corporate Innovation Master of Professional Studies program; or permission of Maryland Technology Enterprise Institute.*

*Enables aspiring entrepreneurs to understand the content, methods, and models for new venture opportunity assessment and analysis. Focuses on how to identify and analyze entrepreneurial opportunities for technology-based ventures by first understanding the personal self and decision-making factors. Explores how to evaluate new venture opportunities and challenges within industries and markets.*

| | | |
|---|---|---|
| PLM1 | James Green | Seats (Total: 20) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Students in the MPS in Technology Entrepreneurship and Corporate Innovation may register without permission. All other graduate students may contact mpte@umd.edu for permission to enroll. Golden ID students are not eligible for this section.* | |

**ENES663** **Strategies for Managing Innovation**

*Restriction: Must be in the Product Management or the Technology Entrepreneurship and Corporate Innovation Master of Professional Studies programs; or permission of Maryland Technology Enterprise Institute.*

*Emphasizes how innovative leaders can use strategic management of innovation and technology to enhance firm performance. It helps students to understand the process of technological change; the ways that firms come up with innovations; the strategies that firms use to benefit from innovation; and the process of formulating technology strategy. It provides frameworks for analyzing key aspects of these industries and teaches students how to apply these frameworks.*

| | | |
|---|---|---|
| PLM1 | Sharon Flank | Seats (Total: 60) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Students in the MPS in Product Management or MPS in Technology Entrepreneurship and Corporate Innovation may register without permission. All other graduate students may contact mtecheducation@umd.edu for permission to enroll. Golden ID students are not eligible for this section.* | |

**ENES665** **Innovative Thinking**

*Restriction: Must be in the Product Management or the Technology Entrepreneurship and Corporate Innovation Master of Professional Studies programs; or permission of Maryland Technology Enterprise Institute.*

*Introduces students to new and powerful tools to boost their creative problem solving skills. Participants re-discover their communication and teaming skills. Students unlock their creativity potential, and explore win-win approaches to define and solve problems of different kinds. Students are also introduced to topics related to intellectual property.*

| | | |
|---|---|---|
| PLM1 | Frankie Abralind | Seats (Total: 40) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Students in the MPS in Product Management may register without permission. All other graduate students may contact mppm@umd.edu for permission to enroll. Golden ID students are not eligible for this section.* | |

**ENES672** **Launching Technology Startup Ventures**

*Restriction: Must be in the Technology Entrepreneurship and Corporate Innovation Master of Professional Studies program; or permission of Maryland Technology Enterprise Institute.*

*Explores the processes and skills needed to launch and manage technology startup ventures. Learn how to apply best practices for planning, launching, and leading new companies. Discusses a wide range of issues of importance and concern to entrepreneurs, to include how to navigate uncertainty.*

| | | |
|---|---|---|
| PLM1 | Harry D'Andrea | Seats (Total: 12) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Students in the MPS in Technology Entrepreneurship and Corporate Innovation may register without permission. All other graduate students may contact mpte@umd.edu for permission to enroll.* | |

**ENES673** **Financing the Product Life Cycle**

*Restriction: Must be in the Product Management Master of Professional Studies program; or permission of Maryland Technology Enterprise Institute.*

*Provides the essential tools and skills to build a strong financial foundation for designing, developing, and managing new products within established companies and organizations. Examines accounting principles as well as methods for managing the financials of the product. Discusses navigating the multitude of financial barriers that may block success, as well as how to raise the right amount of capital at the right time from the right source, with an emphasis on internal company financing.*

| | | |
|---|---|---|
| PLM1 | Michael Pratt | Seats (Total: 40) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Students in the MPS in Product Management may register without permission. All other graduate students may contact mppm@umd.edu for permission to enroll. Golden ID students are not eligible for this section.* | |

**ENES674** **Managing Product Development and Operations**

*Restriction: Must be in the Product Management Master of Professional Studies program; or permission of Maryland Technology Enterprise Institute.*

*Explores the evolution of modern management methods for operations and product development. Evaluates production and operation methods from inception to factory-based models of productivity, through the quality and lean movements, to the explosion of productivity with modern approaches. Focuses on how to effectively run large-scale agile teams with agile engineering at its core.*

| | | |
|---|---|---|
| PLM1 | Michael O'Connor | Seats (Total: 40) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Students in the MPS in Product Management may register without permission. All other graduate students may contact mppm@umd.edu for permission to enroll. Golden ID students are not eligible for this section.* | |

**ENES680** **Building and Leading Innovative Organizations**

*Restriction: Must be in the Product Management Master of Professional Studies program; or permission of Maryland Technology Enterprise Institute.*

*Focuses on building a product enterprise through lean product portfolio management. Defines the conceptual groundwork that enables achieving the vision of a customer-centric value creation business model centered around lean principles. Explains the details of building a scaled product enterprise and explores alignment of organizational support functions with a product framework that lays the pathway for a sustainable value maximizing enterprise at scale.*

| | | |
|---|---|---|
| PLM1 | Tushar Rathod | Seats (Total: 40) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Students in the MPS in Product Management may register without permission. All other graduate students may contact mppm@umd.edu for permission to enroll. Golden ID students are not eligible for this section.* | |

# ENFP Engineering, Fire Protection Fall 2024

**ENFP101** **Introduction to Fire Protection Engineering**

(Perm req)

*Restriction: Permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP108 or ENFP101. Formerly: ENFP108.*

*This course will introduce students to the impact of fire on people, property and the environment and methods to mitigate the threat of fire. Student teams will apply the principles of fire behavior and fire safety systems covered in the first half of the course to design, build and test a fire safe, small-scale apartment. A final experiment will be conducted to provide an assessment of the complete designs of each team.*

| | | | |
|---|---|---|---|
| 0101 | Peter Sunderland | Seats (Total: 25) | |
| | M 12:00pm - 12:50pm | JMP 1109 | |

**ENFP250** **Introduction to Life Safety Analysis**

(Perm req)

*Prerequisite: Permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP250 or ENFP251. Formerly: ENFP251.*

*Introduction to fire protection engineering and building regulation focusing on building safety systems, egress system design and evacuation modeling.*

| | | | |
|---|---|---|---|
| 0101 | Christopher Hallock, Thomas Good | Seats (Total: 32) | |
| | TuTh 9:30am - 10:45am | AJC 2134 | |
| | F 10:00am - 10:50am | AJC 2134 | Discussion |

**ENFP300** **Fire Protection Fluid Mechanics**

(Perm req)

*Prerequisite: MATH246 and ENFP201; and must have completed or be concurrently enrolled in PHYS260, PHYS261. Restriction: Permission of ENGR-Fire Protection Engineering department. Credit only granted for: BIOE331, ENCE305, ENFP300, or ENME331.*

*Presents students with the fundamental properties of fluids and fluid movement. Both static and dynamic fluid problems will be considered with an emphasis on fire protection systems.*

| | | | |
|---|---|---|---|
| 0101 | Paul Anderson | Seats (Total: 30) | |
| | TuTh 11:00am - 12:15pm | AJC 2121 | |
| | W 12:00pm - 12:50pm | AJC 2121 | Discussion |

**ENFP405** **Structural Fire Protection**

(Perm req)

*Prerequisite: ENES220. Restriction: Must be in Engineering: Fire Protection program; and permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP405 or ENFP621.*

*Effects of elevated temperature on structural materials; steel, concrete, wood, gypsum, glass and reinforced plastics. Experimental evaluation of fire resistance of building assemblies. Analytical methods to evaluate fire resistance of structural members.*

| | | |
|---|---|---|
| 0101 | Shuna Ni | Seats (Total: 28) |
| | TuTh 3:30pm - 4:45pm | JMP 1202 |

**ENFP410** **Special Hazard Suppression Systems**

(Perm req)

*Prerequisite: ENFP310 and ENFP312. Restriction: Permission of ENGR-Fire Protection Engineering department. Jointly offered with: ENFP610. Credit only granted for: ENFP410, ENFP610 or ENFP653.*

*Analysis of application and theory of fire suppression systems. The key elements of fire suppression systems will be discussed along with how they interact for effective fire suppression design. Physical mechanisms for a variety of fire suppression approaches will be discussed including hose streams, sprinklers, water mist, foam, clean agents, and chemical agents.*

| | | |
|---|---|---|
| 0101 | Mark Hopkins | Seats (Total: 28) |
| | TuTh 2:00pm - 3:15pm | JMP 2202 |

**ENFP415** **Fire Dynamics**

(Perm req)

*Prerequisite: ENFP312. Restriction: Permission of ENGR-Fire Protection Engineering department. Jointly offered with ENFP651. Credit only granted for: ENFP415 or ENFP651.*

*Designed to give students a quantitative understanding of fire behavior. The fundamentals of physics and chemistry of combustion are presented and used to derive key analytical relationships that describe fire growth. Application of these relationships to the analysis of common fire scenarios is emphasized.*

| | | |
|---|---|---|
| 0101 | Peter Sunderland | Seats (Total: 28) |
| | TuTh 11:00am - 12:15pm | JMP 2202 |

**ENFP425** **Enclosure Fire Modeling**

(Perm req)

*Prerequisite: ENES232, ENFP300, and ENFP312. Restriction: Must be in Engineering: Fire Protection program; and senior standing; and permission of ENGR-Fire Protection Engineering department.*

*An introduction to enclosure fire dynamics through the development of fire modeling algorithms and the application of computer-based fire modeling techniques. The objectives of the course are: to provide a basic understanding of enclosure fire dynamics with an emphasis on a system-level viewpoint (i.e., a global description of the coupling between combustion dynamics, smoke filling, vent flows and heat transfer); and to provide an introduction to the zone modeling approach. Topics covered include a review of the mathematical formulation of zone models, a discussion of numerical integration of the zone modeling equations (using MATLAB), and an introduction to zone modeling software used by professional engineers (e.g., CFAST).*

| | | |
|---|---|---|
| 0101 | Arnaud Trouve | Seats (Total: 35) |
| | TuTh 9:30am - 10:45am | JMP 2202 |

**ENFP429** **Independent Studies**

(Perm req)

*For students who have definite plans for individual study of approved problems, or study of an advanced topic selected in conjunction with the faculty.*

Senior standing. For ENFP majors only.

**Contact department for information to register for this course.**

**ENFP440** **Smoke Management and Fire Alarm Systems**

(Perm req)

*Prerequisite: Must have completed with a C- or better or concurrently be enrolled in ENFP300. Restriction: Permission of ENGR-Fire Protection Engineering department. Jointly offered with: ENFP627. Credit only granted for: ENFP440 or ENFP627.*

*Analysis of hazard posed by smoke in buildings. Performance characteristics of smoke management systems. Review of analytical design aids. Functional analysis and design of fire detection and alerting systems. Examination and evaluation of code criteria, performance specifications and research.*

| | | |
|---|---|---|
| 0101 | Duane Johnson, James Milke | Seats (Total: 30) |
| | MW 8:30am - 9:45am | AJC 2121 |

**ENFP464** **Industrial Fire Safety**

(Perm req)

*Prerequisite: Students must be of senior standing. Restriction: Permission of ENGR-Fire Protection Engineering department. Also offered as: ENFP664. Credit only granted for: ENFP464, ENFP489I, ENFP629I OR ENFP664. Formerly: ENFP489I. Additional information: The course will be taught as a dual senior-level undergraduate course and graduate course.*

*Designed to introduce students to the basics of process safety with a focus on the methods and techniques that may be utilized when evaluating the existing or proposed safety protection solutions in industrial facilities. An emphasis is placed on properly identifying the hazards that are present, the risk exposure, and how best to address the risk. The foundation is laid by presenting the necessary background information on industrial processes and integrating this information with applicable fire/explosion safety science.*

| | | |
|---|---|---|
| 0101 | Noah Ryder, Andrew Kohout<br>M 5:00pm - 7:50pm | Seats (Total: 10)<br>EGR 1102 |

**ENFP489** **Special Topics**

(Perm req)

*Selected topics of current importance to fire protection.*

For ENFP majors only.

**Contact department for information to register for this course.**

**ENFP610** **Advanced Special Hazard Suppression Systems**

*Jointly offered with: ENFP410. Credit only granted for: ENFP410, ENFP610 or ENFP653.*

*Issues related to the suppression of fires and the design of fire suppression systems. Theoretical aspects of fire suppression and extinction are considered to provide the foundation for the practical design of different types of fire suppression systems. Focus on water-based and "clean agent" fire suppression systems, with emphasis on high challenge and special hazard applications. Systems using other agents are introduced, but are not addressed in detail.*

| | | |
|---|---|---|
| 0101 | Mark Hopkins<br>TuTh 2:00pm - 3:15pm | Seats (Total: 10)<br>JMP 2202 |

**ENFP619** **Graduate Seminar**

(Perm req)

| | | |
|---|---|---|
| 0101 | Arnaud Trouve<br>Contact instructor or department for details. | Seats (Total: 5) |

**ENFP621** **Analytical Procedures of Structural Fire Protection**

(Perm req)

*Prerequisite: ENFP312. Cross-listed with ENFP621. Credit only granted for: ENFP405 or ENFP621.*

*Analysis procedures for structural components of wood, steel, concrete, composites. Structural capabilities, modifications under fire induced exposures. Calculations, computer models for predicting fire resistance ratings of structural components.*

| | | |
|---|---|---|
| 0101 | Shuna Ni | Seats (Total: 10) |
| | TuTh 3:30pm - 4:45pm | JMP 1202 |

**ENFP627** **Advanced Smoke Management and Fire Alarm Systems**

*Prerequisite: ENFP300. Jointly offered with: ENFP440. Credit only granted for: ENFP627 or ENFP440.*

*Analysis of hazard smoke. Response analysis of smoke detectors based on characteristics of detectors and properties of smoke. Performance characteristics and limitations of smoke management systems. Capabilities and limitations of analytical design aids.*

| | | |
|---|---|---|
| 0101 | Duane Johnson, James Milke | Seats (Total: 8) |
| | MW 8:30am - 9:45am | AJC 2121 |
| | *2408-2701: Extended approval to offer non-standard meeting time - SLB.* | |

**ENFP629** **Selected Topics**

(Perm req)

*Current research, studies in fire protection engineering. Future trends and significant changes in research, professional areas. The professional standards process.*

**Contact department for information to register for this course.**

**ENFP649** **Special Problems**

(Perm req)

*Advanced topics selected by the faculty from the current literature to suit the special needs and background of students, or for individual students who have definite plans of individual study.*

Prerequisite: permission of department.

**Contact department for information to register for this course.**

**ENFP651** **Advanced Fire Dynamics**

(Perm req)

*Prerequisite: ENFP312. Jointly offered with: ENFP415. Credit only granted for: ENFP629A, ENFP651 or ENFP415. Formerly: ENFP629A.*

*A review of the basic chemistry and physics necessary to understanding fire dynamics; and of the physics of heat transfer and turbulent fluid flow will be given. The nature and structure of premixed and diffusion flames will be presented.*

| | | |
|---|---|---|
| 0101 | Peter Sunderland | Seats (Total: 10) |
| | TuTh 11:00am - 12:15pm | JMP 2202 |

**ENFP652** **Fire Assessment Methods**

*Credit only granted for: ENFP629B or ENFP652. Formerly: ENFP629B.*

*This on-line course offers a comprehensive review of experimental techniques to assess fire performance characteristics of materials, products and assemblies.*

| | | |
|---|---|---|
| EF01 | Marc Janssens | Seats (Total: 25) |
| | Class time/details on ELMs | ONLINE |

**ENFP661** **Forensic Fire Analysis**

*Credit only granted for: ENFP629D or ENFP661. Formerly: ENFP629D.*

*This on-line course addresses the forensic analysis of structural fire incidents in terms of enclosure fire dynamics and the impact of fire safety subsystems used to prevent or mitigate the consequences of fire. These subsystems include: ignition prevention, material flammability and flame spread, fire detection and alarm, fire suppression, smoke movement and management, structural fire protection and egress systems. Failures in these subsystems are addressed in terms of differences between expected and observed performance.*

| | | |
|---|---|---|
| EF01 | David Icove, Gerald Haynes | Seats (Total: 25) |
| | Class time/details on ELMs | ONLINE |

**ENFP664** **Advanced Industrial Fire Safety**

*Jointly offered with ENFP464. Credit only granted for: ENFP489I, ENFP62 9I, ENFP464, or ENFP664. Formerly: ENFP489I and ENFP629I.*

*This class is designed to introduce students to the basics of process safety with a focus on the methods and techniques that may be utilized when evaluating the existing or proposed safety protection solutions in industrial facilities. An emphasis is placed on properly identifying the hazards that are present, the risk exposure, and how best to address the risk. The foundation is laid by presenting the necessary background information on industrial processes and integrating this information with applicable fire/explosion safety science.*

| | | |
|---|---|---|
| 0101 | Noah Ryder, Andrew Kohout | Seats (Total: 15) |
| | M 5:00pm - 7:50pm | EGR 1102 |

**ENFP671** **Material Flammability**

*Recommended: Completion of ENFP415 or ENFP651 and ENFP320 or ENFP420 recommended. Restriction: Permission of ENGR-Fire Protection Engineering department. Credit only granted for: ENFP629M or ENFP671. Formerly: ENFP629M.*

*Introduction to the science and technology of polymeric materials. Standard methods for assessment of fire hazards associated with these materials are reviewed. Fundamental mechanisms defining polymer combustion in various scenarios are elucidated.*

| | | |
|---|---|---|
| 0101 | Stanislav Stoliarov | Seats (Total: 20) |
| | TuTh 12:30pm - 1:45pm | EGR 1102 |

**ENFP799** **Master's Thesis Research**

(Perm req)

*Development and completion of Master's Thesis.*

**Contact department for information to register for this course.**

# ENGL English Fall 2024

*English as a second language classes are listed under UMEI. For more detailed course descriptions, click here to visit the English department website.*

**ENGL101** **Academic Writing**

*Additional information: Students must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.*

*An introductory course in expository writing.*

Students with a TWSE score below 33 must take ENGL 101A in place of ENGL101. Students for whom English is a second language should consider taking ENGL101X in place of ENGL101.

*Click here for more course information.*

| | | |
|---|---|---|
| 0001 | Xiaofang Huang<br>MWF 8:00am - 8:50am | Seats (Total: 19)<br>TWS 1313 |
| 0002 | Dalton Greene<br>MWF 8:00am - 8:50am | Seats (Total: 19)<br>TWS 1321 |
| 0101 | Porter Olsen<br>MWF 9:00am - 9:50am | Seats (Total: 19)<br>KEY 0119 |
| 0102 | William Pittman<br>MWF 9:00am - 9:50am | Seats (Total: 19)<br>TWS 1321 |
| 0103 | Liam Daley<br>MWF 9:00am - 9:50am | Seats (Total: 19)<br>KEY 0124 |
| 0108 | Eric Baker<br>MWF 9:00am - 9:50am | Seats (Total: 19)<br>TWS 3136 |
| 0201 | Daniel Sidman<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>TWS 1313 |

| | | |
|---|---|---|
| 0202 | William Pittman<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>TWS 1321 |
| 0205 | Ariana Nash<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>TWS 1320 |
| 0208 | Mike Kolakoski<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>KEY 0124 |
| 0302 | Daniel Sidman<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>KNI 1105 |
| 0303 | Mike Kolakoski<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>KEY 0124 |
| 0304 | Liam Daley<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>KEY 0121 |
| 0305 | Ariana Nash<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>TWS 3134 |
| 0306 | Porter Olsen<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>WDS 1114 |
| 0402 | Alan Montroso<br>MWF 12:00pm - 12:50pm | Seats (Total: 19)<br>TWS 3132 |
| 0403 | Mike Kolakoski<br>MWF 12:00pm - 12:50pm | Seats (Total: 19)<br>KEY 0123 |
| 0404 | Porter Olsen<br>MWF 12:00pm - 12:50pm | Seats (Total: 19)<br>KEY 0124 |
| 0405 | Ariana Nash<br>MWF 12:00pm - 12:50pm | Seats (Total: 19)<br>TWS 3252 |
| 0406 | Daniel Sidman<br>MWF 12:00pm - 12:50pm | Seats (Total: 19)<br>TWS 1105 |
| 0502 | Xiaofang Huang<br>MWF 1:00pm - 1:50pm | Seats (Total: 19)<br>TWS 3132 |

| | | |
|---|---|---|
| 0503 | Corinne Brinkley<br>MWF 1:00pm - 1:50pm | Seats (Total: 19)<br>KEY 0119 |
| 0504 | Mike Kolakoski<br>MWF 1:00pm - 1:50pm | Seats (Total: 19)<br>KEY 0123 |
| 0505 | Edward Daschle<br>MWF 1:00pm - 1:50pm | Seats (Total: 19)<br>TWS 1321 |
| 0602 | Declan Langton<br>MWF 2:00pm - 2:50pm | Seats (Total: 19)<br>HBK 1112 |
| 0603 | Edward Daschle<br>MWF 2:00pm - 2:50pm | Seats (Total: 19)<br>TWS 3134 |
| 0605 | Dylan Carpenter<br>MWF 2:00pm - 2:50pm | Seats (Total: 19)<br>KNI 1103 |
| 1001 | Susan Pramschufer<br>TuTh 8:00am - 9:15am | Seats (Total: 19)<br>TWS 3250 |
| 1002 | Preet Bhela<br>TuTh 8:00am - 9:15am | Seats (Total: 19)<br>TWS 3252 |
| 1101 | Rashi Maheshwari<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>LEF 1171 |
| 1102 | Ava Serra<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>TWS 1313 |
| 1103 | Stephanie Allen<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>KEY 0124 |
| 1104 | Aubrey Zinn<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>TWS 3136 |
| 1109 | Rachel Cote<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>KEY 0123 |
| 1203 | Peter Grybauskas<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>TWS 3134 |

| | | |
|---|---|---|
| 1204 | Sabrina Islam<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>TWS 1321 |
| 1205 | Stephanie Allen<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>KEY 0124 |
| 1209 | John Macintosh<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>TWS 3250 |
| 1210 | Olubukola Salako<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>TWS 1105 |
| 1301 | Rachel Cote<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>KEY 0123 |
| 1302 | John Macintosh<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>EDU 3236 |
| 1303 | Olubukola Salako<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>TWS 3136 |
| 1304 | Nahid Ahmadian<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>KEY 0119 |
| 1305 | Victoria Moten<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>KEY 0121 |
| 1307 | Heather McHale<br>TuTh 12:30pm - 1:45pm<br>*Restricted to students in Institute of Applied Agriculture.* | Seats (Total: 19)<br>JUL 1123 |
| 1308 | Andrew Howard<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>TWS 3252 |
| 1401 | Peter Grybauskas<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>TWS 3136 |
| 1402 | Elizabeth Osei<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>ASY 3221 |

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|---|---|---|
| 1403 | Annemarie Ewing<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>KEY 0121 |
| 1404 | John Macintosh<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>TWS 1105 |
| 1405 | Olubukola Salako<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>ASY 3219 |
| 1407 | Sabrina Islam<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>TWS 1321 |
| 9001 | Rachel Waugh<br>Tu 9:30am - 10:45am<br>Th 9:30am - 10:45am | Seats (Total: 19)<br>KEY 0120<br>ONLINE |
| 9002 | Rachel Waugh<br>Tu 11:00am - 12:15pm<br>Th 11:00am - 12:15pm | Seats (Total: 19)<br>KEY 0120<br>ONLINE |
| 9003 | Radford Skudrna<br>Th 9:30am - 10:45am<br>Tu 9:30am - 10:45am | Seats (Total: 19)<br>KEY 0120<br>ONLINE |
| 9004 | Lyra Hilliard<br>Th 11:00am - 12:15pm<br>Tu 11:00am - 12:15pm | Seats (Total: 19)<br>KEY 0120<br>ONLINE |
| 9005 | David Brookshire<br>MF 10:00am - 10:50am<br>Class time/details on ELMs | Seats (Total: 19)<br>KEY 0120<br>ONLINE |
| 9006 | David Brookshire<br>MF 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 19)<br>KEY 0120<br>ONLINE |
| 9007 | David Brookshire<br>MF 12:00pm - 12:50pm<br>Class time/details on ELMs | Seats (Total: 19)<br>KEY 0120<br>ONLINE |

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|---|---|---|
| 9008 | David Brookshire<br>MF 1:00pm - 1:50pm<br>Class time/details on ELMs | Seats (Total: 19)<br>KEY 0120<br>ONLINE |
| 9009 | Xiaofang Huang<br>MW 10:00am - 10:50am<br>Class time/details on ELMs | Seats (Total: 19)<br>ASY 3221<br>ONLINE |
| 9010 | Xiaofang Huang<br>MW 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 19)<br>ASY 3221<br>ONLINE |
| 9012 | Emily Flamm<br>MW 1:00pm - 1:50pm<br>Class time/details on ELMs | Seats (Total: 19)<br>ASY 3221<br>ONLINE |
| 9013 | Robert Lucci<br>Tu 2:00pm - 3:15pm<br>Th 2:00pm - 3:15pm | Seats (Total: 19)<br>KEY 0123<br>ONLINE |
| 9014 | Robert Lucci<br>Tu 11:00am - 12:15pm<br>Th 11:00am - 12:15pm | Seats (Total: 19)<br>KEY 0123<br>ONLINE |
| 9015 | Yvonne Roe<br>Tu 12:30pm - 1:45pm<br>Th 12:30pm - 1:45pm | Seats (Total: 19)<br>KEY 0120<br>ONLINE |
| 9016 | Mike Kolakoski<br>Tu 2:00pm - 3:15pm<br>Th 2:00pm - 3:15pm | Seats (Total: 19)<br>KEY 0120<br>ONLINE |
| 9017 | Nia Crawford<br>Th 2:00pm - 3:15pm<br>Tu 2:00pm - 3:15pm | Seats (Total: 19)<br>KEY 0123<br>ONLINE |
| 9018 | Radford Skudrna<br>Th 11:00am - 12:15pm<br>Tu 11:00am - 12:15pm | Seats (Total: 19)<br>KEY 0123<br>ONLINE |

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|---|---|---|
| 9019 | Nia Crawford<br>Th 12:30pm - 1:45pm<br>Tu 12:30pm - 1:45pm | Seats (Total: 19)<br>KEY 0120<br>ONLINE |
| 9020 | Radford Skudrna<br>Th 2:00pm - 3:15pm<br>Tu 2:00pm - 3:15pm | Seats (Total: 19)<br>KEY 0120<br>ONLINE |
| 9021 | Susan Pramschufer<br>Tu 12:30pm - 1:45pm<br>Th 12:30pm - 1:45pm | Seats (Total: 19)<br>KEY 0124<br>ONLINE |
| 9022 | Radford Skudrna<br>Th 12:30pm - 1:45pm<br>Tu 12:30pm - 1:45pm | Seats (Total: 19)<br>KEY 0124<br>ONLINE |
| 9023 | Erica Cochran<br>MF 2:00pm - 2:50pm<br>Class time/details on ELMs | Seats (Total: 19)<br>KEY 0121<br>ONLINE |
| 9024 | Erica Cochran<br>Tu 5:00pm - 6:15pm<br>Th 5:00pm - 6:15pm | Seats (Total: 19)<br>KEY 0119<br>ONLINE |
| 9025 | Nia Crawford<br>Th 5:00pm - 6:15pm<br>Tu 5:00pm - 6:15pm | Seats (Total: 19)<br>KEY 0119<br>ONLINE |
| 9026 | Erica Cochran<br>MF 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 19)<br>KEY 0123<br>ONLINE |
| 9028 | Eliamani Ismail<br>Th 11:00am - 12:15pm<br>Tu 11:00am - 12:15pm | Seats (Total: 19)<br>KEY 0119<br>ONLINE |
| 9029 | Eliamani Ismail<br>Th 2:00pm - 3:15pm<br>Tu 2:00pm - 3:15pm | Seats (Total: 19)<br>KEY 0119<br>ONLINE |

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|---|---|---|
| FC01 | Paul Cote<br>MW 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0121 |
| FC02 | Paul Cote<br>MW 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0121 |
| FC03 | Olutoyin Adeyemi<br>MW 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>TWS 0207 |
| FC04 | Gregory Deinert<br>MW 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0119 |
| FC05 | Dylan Carpenter<br>MW 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0123 |
| FC06 | Gregory Deinert<br>MW 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0120 |
| FC07 | Kristofer Reed<br>MW 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0123 |
| FC08 | Anthony Batts<br>TuTh 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0123 |
| FC09 | Esthus Amos<br>TuTh 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0121 |
| FC10 | Mariko Carson<br>TuTh 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>ASY 3219 |

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|---|---|---|
| FC11 | Anthony Batts<br>TuTh 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0120 |
| FC12 | Sydney Sharpstene<br>MW 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0124 |
| FC13 | Mariko Carson<br>TuTh 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>TWS 0221 |
| FC14 | Esthus Amos<br>TuTh 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0119 |
| FC15 | Edward Daschle<br>TuTh 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0123 |
| FC16 | Lizzy Solovey<br>TuTh 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0124 |
| FC17 | Chauncey Dennie<br>TuTh 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0121 |
| FC18 | Sabrina Islam<br>TuTh 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0120 |
| FC19 | Anne Bolgiano<br>MW 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0120 |
| FC20 | Anne Bolgiano<br>MW 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0120 |

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|---|---|---|
| FC21 | Sydney Sharpstene<br>MW 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0123 |
| FC22 | Nahid Ahmadian<br>TuTh 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>SYM 0215 |
| FC23 | Sydney Sharpstene<br>MW 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0123 |
| FC24 | Chauncey Dennie<br>TuTh 6:00pm - 7:15pm<br>*Restricted to Freshmen Connection Students.* | Seats (Total: 19)<br>KEY 0124 |
| FC25 | Anne Bolgiano<br>MW 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>JMZ 0125 |
| FC26 | Dylan Carpenter<br>MW 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0119 |
| FC27 | Anne Bolgiano<br>MW 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 19)<br>KEY 0121 |

**ENGL101A** **Academic Writing**

*Additional information: Students must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.*

*An introductory course in expository writing.*

Students should take ENGL 101A rather than ENGL 101 if their TWSE score (a subscore of the SAT verbal) is 33 or below.

| | | |
|---|---|---|
| 1702 | Nahid Ahmadian<br>TuTh 9:30am - 10:45am | Seats (Total: 15)<br>WDS 0104 |

| | | |
|---|---|---|
| 1703 | Gregory Deinert<br>MWF 12:00pm - 12:50pm | Seats (Total: 15)<br>KEY 0119 |

**ENGL101H** **Academic Writing**

*Additional information: Students must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.*

*An introductory course in expository writing.*

For general honors students or students with a verbal SAT of 600 or better.

| | | |
|---|---|---|
| 0109 | Katherine Joshi<br>MWF 9:00am - 9:50am | Seats (Total: 19)<br>TWS 3134 |
| 0210 | Katherine Joshi<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>TWS 3136 |
| 0310 | Katherine Joshi<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>TWS 3136 |
| 0407 | Katherine Joshi<br>MWF 12:00pm - 12:50pm | Seats (Total: 19)<br>TWS 3134 |
| 0507 | Alan Montroso<br>MWF 1:00pm - 1:50pm | Seats (Total: 19)<br>TWS 3250 |
| 1001 | Andrew Howard<br>TuTh 8:00am - 9:15am | Seats (Total: 19)<br>ASY 3221 |
| 1107 | Andrew Howard<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>ASY 3221 |

**ENGL101S** **Academic Writing**

*Additional information: Students must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.*

*An introductory course in expository writing.*

This course is restricted to College Park Scholars.

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|---|---|---|
| 0110 | Tom Hatcher<br>MWF 9:00am - 9:50am | Seats (Total: 19)<br>CCC 1105 |

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|---|---|---|
| 0211 | Joshua Weiss<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>CCC 1105 |
| 0212 | Tom Hatcher<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>CCC 1115 |
| 0311 | Joshua Weiss<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>CCC 1105 |
| 0312 | Tom Hatcher<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>CCC 1115 |
| 0410 | Joshua Weiss<br>MWF 12:00pm - 12:50pm | Seats (Total: 19)<br>CCC 1105 |
| 0509 | Kara Pleasants<br>MWF 1:00pm - 1:50pm | Seats (Total: 19)<br>CCC 1105 |
| 0607 | Kara Pleasants<br>MWF 2:00pm - 2:50pm | Seats (Total: 19)<br>CCC 1105 |
| 1108 | Lara Payne<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>CCC 1105 |
| 1209 | Lara Payne<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>CCC 1115 |
| 1210 | Anthony Batts<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>CCC 1105 |
| 1308 | Anthony Batts<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>CCC 1115 |
| 1401 | Anthony Batts<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>CCC 1105 |
| 9001 | Catherine Bayly<br>MF 12:00pm - 12:50pm<br>Class time/details on ELMs | Seats (Total: 19)<br>CCC 1115<br>ONLINE |

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|---|---|---|---|
| 9002 | Catherine Bayly<br>MF 1:00pm - 1:50pm<br>Class time/details on ELMs | Seats (Total: 19)<br>CCC 1115<br>ONLINE | |

**ENGL101X** **Academic Writing**

*Additional information: Students must complete this course with a minimum grade of C- in order to fulfill the General Education Fundamental Studies Academic Writing requirement.*

*An introductory course in expository writing.*

Limited to students for whom English is a second language. The following are indications that a student should register for English 101X: 1) an iBT TOEFL score of 100 overall, with a writing section score of at least 24; 2) an IELTS score of 7.0 overall, with a writing score of at least 7.0; 3) satisfactory completion of UMEI 005: Advanced English as a Foreign Language.

| | | | |
|---|---|---|---|
| 2002 | Laura Williams<br>TuTh 9:30am - 10:45am | Seats (Total: 18)<br>ASY 3219 | |
| 2003 | Laura Williams<br>TuTh 12:30pm - 1:45pm | Seats (Total: 18)<br>TWS 3134 | |
| 2004 | Janet Shim<br>MWF 10:00am - 10:50am | Seats (Total: 18)<br>TWS 3250 | |
| 2005 | Janet Shim<br>MWF 12:00pm - 12:50pm | Seats (Total: 18)<br>TWS 3250 | |
| 2007 | Janet Shim<br>MWF 11:00am - 11:50am | Seats (Total: 18)<br>TWS 3250 | |

**ENGL120** **Acting Human: Shakespeare and the Drama of Identity**

*Shakespeare's ideas of dramatic realism studied through close examination of literary and dramatic techniques. How Shakespeare generates the fiction of a living, thinking person in the space of five acts, and how readers participate in the making of that fiction. Some attention to Shakespeare on film and what the playwright can teach us about different media.*

| | | | |
|---|---|---|---|
| 0101 | Gerard Passannante<br>MW 2:00pm - 2:50pm<br>F 10:00am - 10:50am | Seats (Total: 24)<br>ASY 2309<br>TWS 0234 | Discussion |
| 0102 | Gerard Passannante<br>MW 2:00pm - 2:50pm<br>F 11:00am - 11:50am | Seats (Total: 24)<br>ASY 2309<br>TWS 0234 | Discussion |

| | | | |
|---|---|---|---|
| 0103 | Gerard Passannante<br>MW 2:00pm - 2:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 24)<br>ASY 2309<br>TWS 0221 | Discussion |
| 0104 | Gerard Passannante<br>MW 2:00pm - 2:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 24)<br>ASY 2309<br>TWS 0221 | Discussion |

**ENGL126** **Why Fiction Matters**

*Consider how short stories, novellas, and novels are vital to understanding our world and ourselves. Read and analyze a diverse range of twentieth- and twenty-first-century fiction, and apply the techniques of form and craft to your own experiments in fiction writing. Use critical analysis and hands-on creative experimentation to explore how fiction helps us understand the past, engage in the present, and build a better future.*

| | | | |
|---|---|---|---|
| 0101 | Rion Scott<br>MW 2:00pm - 2:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 23)<br>PHY 1410<br>TWS 1106 | Discussion |
| 0102 | Rion Scott<br>MW 2:00pm - 2:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 24)<br>PHY 1410<br>TWS 1106 | Discussion |
| 0103 | Rion Scott<br>MW 2:00pm - 2:50pm<br>F 9:00am - 9:50am | Seats (Total: 23)<br>PHY 1410<br>TWS 1106 | Discussion |
| 0104 | Rion Scott<br>MW 2:00pm - 2:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 24)<br>PHY 1410<br>TWS 1106 | Discussion |
| 0105 | Rion Scott<br>MW 2:00pm - 2:50pm<br>F 10:00am - 10:50am | Seats (Total: 24)<br>PHY 1410<br>TWS 1106 | Discussion |
| 0106 | Rion Scott<br>MW 2:00pm - 2:50pm<br>F 11:00am - 11:50am | Seats (Total: 24)<br>PHY 1410<br>TWS 1106 | Discussion |

**ENGL134** **The Rites of Discovery: Science, Law, and Literature, 1492-1992**

*History of idea of "discovery" from sixteenth-century debate about European "rights of discovery" to 500th anniversary, in 1992, of Columbus' landfall in New World. Evolution of modern concept of discovery, both as part of history of science and in legal context of history of European colonialism and cultural encounter with Native peoples of Americas, Africa, and Asia. Exploration of primary and secondary sources relating to international law, science, and literature.*

| | | | |
|---|---|---|---|
| 0101 | Ralph Bauer<br>MW 1:00pm - 1:50pm<br>F 10:00am - 10:50am | Seats (Total: 24)<br>TWS 1100<br>TWS 0221 | <br><br>Discussion |
| 0102 | Ralph Bauer<br>MW 1:00pm - 1:50pm<br>F 11:00am - 11:50am | Seats (Total: 24)<br>TWS 1100<br>TWS 0221 | <br><br>Discussion |
| 0103 | Ralph Bauer<br>MW 1:00pm - 1:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 24)<br>TWS 1100<br>TWS 0214 | <br><br>Discussion |
| 0104 | Ralph Bauer<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 24)<br>TWS 1100<br>TWS 1320 | <br><br>Discussion |

**ENGL201** **Inventing Western Literature: Ancient and Medieval Traditions**

*How and why do the Middle Ages resonate with us now? Explore a wide range of narratives, poems, artworks, and songs from ancient, medieval, and Renaissance cultures. Study popular culture, manuscript and print technologies, and the relationship between the sacred and the profane over a millenium. Learn about modern and contemporary medievalist revivals that might include authors such as J.R.R. Tolkien and N.K. Jemisin, television series such as Game of Thrones, and more.*

**Contact department for information to register for this course.**

**ENGL202** **Inventing Western Literature: Renaissance to Modern**

*Wide range of texts from the Renaissance to the 21st century. Themes and literary techniques in the evolution of Western literature. Print publication, industrialization, questioning of religious, political, intellectual, and cultural authority.*

**Contact department for information to register for this course.**

**ENGL211** **English Literature: Beginnings to 1800**

*Surveys medieval and early modern literary works written in England. Readings may include Beowulf, Chaucer, Spenser, Mary Wroth, Milton; eighteenth-century satire, drama, novels.*

**Contact department for information to register for this course.**

**ENGL222** **American Literature(s)**

*Explore American literary traditions in a variety of poetic and narrative forms and in diverse historical contexts, ranging from colonization to the Civil Rights Movement and beyond. Genres examined in this course might include lyric poems, travel narratives, gothic short fiction, slave narratives, and science fiction. Emphasis on developing skills of literary interpretation and critical writing, while attending to the place of race, class, gender, and sexuality in American literary culture. Authors may include Phillis Wheatley, Herman Melville, Walt Whitman, Emily Dickinson, Frederick Douglass, Gertrude Stein, F. Scott Fitzgerald, James Baldwin, and Toni Morrison, among others.*

| | | |
|---|---|---|
| 0301 | John Macintosh | Seats (Total: 30) |
| | TuTh 9:30am - 10:45am | TWS 0214 |

**ENGL234** **African-American Literature and Culture**

*Cross-listed with: AAAS234. Credit only granted for: ENGL234, AAAS234 or AASP298L.*

*An exploration of the stories black authors tell about themselves, their communities, and the nation as informed by time and place, gender, sexuality, and class. African American perspective themes such as art, childhood, sexuality, marriage, alienation and mortality, as well as representations of slavery, Reconstruction, racial violence and the Nadir, legalized racism and segregation, black patriotism and black ex-patriots, the optimism of integration, and the prospects of a post-racial America.*

Cross-listed with AASP298L. Credit will be granted for one of the following: AASP298L or ENGL234.

| | | |
|---|---|---|
| 0201 | Timmy Bridgeman | Seats (Total: 30) |
| | MWF 12:00pm - 12:50pm | TWS 0234 |

**ENGL235** **U.S. Latinx Literature and Culture**

*Cross-listed with: AMST298Q. Credit only granted for: ENGL235 or AMST298Q.*

*Examines the poetry, prose, and theater of Latinx communities in the United States from their origins in the Spanish colonization of North America to their ongoing development in the 21st century. Considers how authors use literary form to gain insight into human experience, including mortality, religious belief, gender and sexuality, war and peace, family, language use, scientific inquiry, cultural tradition, ecology, and labor. Also studies how Latinx literary traditions have shaped and been shaped by broader currents in American literature, as well as what connections exist between Latinx literature and social and artistic developments in other parts of the world, particularly Latin America and the Caribbean. Authors may include Alvar Nunez Cabeza de Vaca, Eulalia Perez, Juan Nepomuceno Seguin, Maria Amparo Ruiz de Burton, Jose Marti, Arthur A. Schomburg, Jesus Colon, Julia de Burgos, Cesar Chavez, Ariel Dorfman, Gloria Anzaldua, Junot Diaz, and Cristina Garcia.*

| | | |
|---|---|---|
| 0101 | James Rankin | Seats (Total: 30) |
| | MW 5:00pm - 6:15pm | TWS 0214 |

**ENGL240** **Introduction to Fiction, Poetry, and Drama**

*Readings in the novel, short story, poetry and drama.*

**Contact department for information to register for this course.**

**ENGL243** **What is Poetry?**

*An exploration of arguably the most complex, profound, and ubiquitous expression of human experience. Study through close reading of significant forms and conventions of Western poetic tradition. Poetry's roots in oral and folk traditions and connections to popular song forms.*

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|---|---|---|---|
| 0201 | Andrew Howard<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>JMZ 3205 | |

**ENGL244** **The Play's the Thing**

*Exploration of drama through a consideration of plot, narrative flow, analytical flow, staging, performance, manuscript and printing history, text and textual change over time, and interpretation. Plays will be approached as public attempts to understand what it means to be alive.*

| | | | |
|---|---|---|---|
| 0101 | Michael Olmert<br>M 3:30pm - 6:00pm | Seats (Total: 30)<br>TWS 0205 | |

**ENGL245** **Film Form and Culture**

*Cross-listed with: CINE245. Credit only granted for: ENGL245, CINE245 or FILM245. Formerly: FILM245.*

*Introduction to film as art form and how films create meaning. Basic film terminology; fundamental principles of film form, film narrative, and film history. Examination of film technique and style over past one hundred years. Social and economic functions of film within broader institutional, economic, and cultural contexts.*

| | | | |
|---|---|---|---|
| 0101 | Oliver Gaycken<br>MW 12:00pm - 12:50pm<br>F 11:00am - 11:50am | Seats (Total: 22)<br>TWS 0320<br>ASY 3219 | Discussion |
| 0102 | Oliver Gaycken<br>MW 12:00pm - 12:50pm<br>F 10:00am - 10:50am | Seats (Total: 22)<br>TWS 0320<br>TWS 0214 | Discussion |
| 0103 | Oliver Gaycken<br>MW 12:00pm - 12:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 22)<br>TWS 0320<br>ASY 3221 | Discussion |
| 0104 | Oliver Gaycken<br>MW 12:00pm - 12:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 22)<br>TWS 0320<br>ASY 3221 | Discussion |

| | | |
|---|---|---|
| FC01 | Paul Cote<br>M 6:00pm - 7:15pm<br>Class time/details on ELMs | Seats (Total: 25)<br>KEY 0121<br>ONLINE |

*Restricted to students in Freshmen Connection.*

**ENGL250** **Reading Women Writing**

*Cross-listed with: WGSS255. Credit only granted for: ENGL250, WMST255 or WGSS255. Formerly: WMST255.*

*Explores literary and cultural expressions by women and their receptions within a range of historical periods and genres. Topics such as what does a woman need in order to write, what role does gender play in the production, consumption, and interpretation of texts, and to what extent do women comprise a distinct literary subculture. Interpretation of texts will be guided by feminist and gender theory, ways of reading that have emerged as important to literary studies over the last four decades.*

| | | |
|---|---|---|
| 0101 | Tyra Griffin<br>TuTh 9:30am - 10:45am | Seats (Total: 30)<br>HBK 1112 |

**ENGL251** **Detective Fiction**

*Explore "whodunnit" fiction from its nineteenth-century beginnings to the contemporary moment. Why are readers intrigued by the methodical discovery of the exact circumstances of a mysterious event? How does the figure of the eccentric, intelligent, often unofficial investigator take prominence? How does detective fiction emerge from and react to global imperialism, the modern metropolis, forensic science, and the modern legal system? How does the genre represent and respond to gender, class, and racial inequities? Texts may range from the works of Edgar Allan Poe and Arthur Conan Doyle, to the "Golden Age of Detective Fiction" in the 1920s and 30s by writers such as Agatha Christie, to late-twentieth century and contemporary novelists such as Chester Himes, P.D. James, and Mia P. Manansala, to film and television adaptations such as Enola Holmes, See How They Run, and Kenneth Branagh's Hercule Poirot films.*

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|---|---|---|
| 0101 | Tita Chico<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>TWS 0214 |

**ENGL254** **Introduction to Humanities, Health, and Medicine**

(Perm req)

*Restriction: Permission of ARHU-English Department. Cross-listed with: ARHU230, HIST219N, WGSS230. Credit only granted for: ARHU230 , ENGL289C, ENGL254, ARHU298A, HIST219N, or WGSS230.*

*An overview of the historical, cultural, ethical, and spiritual dimensions of medicine, human health, disease, and death from the points of view of various humanistic disciplines.*

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|---|---|---|
| 0101 | Michelle Moncrieffe<br>TuTh 11:00am - 12:15pm | Seats (Total: 20)<br>JMZ 2123 |

**ENGL255** **Literature of Science and Technology**

*Consider the relationship between fiction and science. How does science as we know it depend on certain fictions or narratives? How do we come to know science through the fictions we encounter? How do literary works represent the ethics of science and technology? What role does science play in the oppression of peoples? What alternative, more liberatory ways of using science are possible?*

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| 0101 | Peter Grybauskas<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>TWS 1106 |

**ENGL256** **Fantasy Literature**

*How fantasy employs alternate forms of representation, such as the fantastical, estranging, or impossible, which other genres would not allow. Through novels, short stories, graphic novels, and film, traces fantasy's roots in mythology and folklore, then explores how modern texts build upon or challenge these origins. Examination of literary strategies texts use to represent the world through speculative modes. How to distinguish fantasy from, and relate it to, other genres such as horror, fairly tales, and magical realism. Fantasy's investment in world-building, history, tradition, and categories of identity such as race, class, and gender. How fantasy, as a genre, form, and world-view, is well-suited to our contemporary reality.*

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| 0101 | Elizabeth Dinneny<br>MWF 12:00pm - 12:50pm | Seats (Total: 30)<br>TWS 0221 |

**ENGL257** **Children's Literature**

*Literature of the nineteenth through the twenty-first century concerned with, and written for, children and young adults. How such narratives speak to themes of changing social, religious, political, and personal identity. Through poetry, novels, graphic novels, and film, explores how children's tales encapsulate and reflect on human existence, while pushing boundaries of what constitutes "children's literature" and what exactly defines the "child." Considers questions of literary classification through investigation of political and religious issues, gender politics, animal rights, social justice, race, war, and what it means to "grow up."*

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| 0101 | Shannon Zellars Strohl<br>MW 3:30pm - 4:45pm | Seats (Total: 30)<br>TWS 0214 |
| FC01 | Sydney Sharpstene<br>MW 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>KEY 0125 |

**ENGL262** **Introduction to the Hebrew Bible/Old Testament**

*Cross-listed with: JWST262, HEBR298B. Credit only granted for: JWST262, HEBR298B, or ENGL262.*

*Origins of the Hebrew Bible (Old Testament), with attention to literary formations, archaeology, and social-political settings. Explorations of major questions, including who wrote the Bible, and when; relationships of the biblical tradition to the mythology and religious structures of ancient Israel's near eastern neighbors; and dynamics of politics, religious leadership, and law.*

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| 0101 | Stephanie Cooper<br>M 2:00pm - 3:15pm<br>W 2:00pm - 3:15pm | Seats (Total: 25)<br>ANS 0402<br>ONLINE |

**ENGL265** **LGBTQ+ Literatures and Media**

*Restriction: Must not have completed LGBT265. Cross-listed with: LGBT265. Credit only granted for: ENGL265 or LGBT265.*

*A study of literary and cultural expressions of queer and trans identities, positionalities, and analytics through an exploration of literature, art, and media. We will examine historical and political power relations by considering the intersections of sexuality and gender with race, class, nation, and disability. Topics include the social construction and regulation of sexuality and gender, performance and performativity, intersectionality, and the relationship between aesthetic forms and queer/ trans subjectivity. Our interpretations will be informed by queer and trans theories.*

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| 0101 | Leela Chantrelle<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>TWS 0221 |
| 0201 | Aaron Bartlett<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>TWS 1106 |

**ENGL269A** **Special Topics in Study Abroad II; German Romanticism in its European Context**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL269B** **Special Topics in Study Abroad II; Writing Workshop I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL269C** **Special Topics in Study Abroad II; Writing Workshop II**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL269R** **Special Topics in Study Abroad II; Writing Rome**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL271** **Writing Poems and Stories: An Introductory Workshop**

*Introduction to theory and practice of writing fiction and poetry. Emphasis on critical reading of literary models. Exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.*

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|---|---|---|
| 0101 | Ava Serra<br>TuTh 11:00am - 12:15pm | Seats (Total: 15)<br>JMZ 0125 |
| 0102 | Ava Serra<br>TuTh 11:00am - 12:15pm<br>*Restricted to students in Jimenez-Porter Writers' House.* | Seats (Total: 5)<br>JMZ 0125 |
| 0201 | January Santoso<br>MW 2:00pm - 3:15pm | Seats (Total: 20)<br>KEY 0119 |
| 0301 | Olivia McClure<br>TuTh 8:00am - 9:15am | Seats (Total: 20)<br>KEY 0120 |
| 0401 | Eric Baker<br>MWF 12:00pm - 12:50pm | Seats (Total: 20)<br>JMZ 1120 |

**ENGL272** **Writing Fiction: A Beginning Workshop**

*Introduction to theory and practice of writing fiction. Emphasis on critical reading of literary models. Exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.*

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| 0101 | Sabrina Islam<br>TuTh 9:30am - 10:45am | Seats (Total: 20)<br>KEY 0119 |
| 0201 | Corinne Brinkley<br>MW 2:00pm - 3:15pm | Seats (Total: 20)<br>KEY 0120 |
| 0301 | Oghenetega Oghenechovwen<br>TuTh 8:00am - 9:15am | Seats (Total: 20)<br>KEY 0121 |
| 0401 | Oghenetega Oghenechovwen<br>TuTh 9:30am - 10:45am | Seats (Total: 20)<br>KEY 0121 |

**ENGL273** **Writing Poetry: A Beginning Workshop**

*Introduction to theory and practice of writing poetry. Emphasis on critical reading of literary models. Exercises and workshop discussions with continual reference to modeling, drafting, and revising as necessary stages in a creative process.*

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| 0101 | Anne Przypyszny<br>MWF 11:00am - 11:50am | Seats (Total: 20)<br>TWS 1321 |
| 0201 | Preet Bhela<br>TuTh 9:30am - 10:45am | Seats (Total: 20)<br>KEY 0125 |

**ENGL275** **Scriptwriting for Theater, Film, and Television**

*Cross-listed with: ARHU275. Credit only granted for: ENGL275 or ARHU275.*

*Introduction to the theory and practice of scriptwriting with an opportunity to read, view, evaluate, write, and revise texts meant to be performed. Students will practice writing for the stage, film, and television and also examine selected scripts, performances, and film and television clips as models for their own creative work. Students will complete frequent writing exercises, participate in workshops, and learn to apply scholarship to the analysis and critique of scripts.*

Cross-listed with ARHU275.

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| 0101 | Jay Wilcox<br>MWF 9:00am - 9:50am | Seats (Total: 15)<br>KEY 0123 |
| 0102 | Jay Wilcox<br>MWF 9:00am - 9:50am<br>*Restricted to students in the Jimenez-Porter Writers' House.* | Seats (Total: 5)<br>KEY 0123 |
| 0201 | Liam Daley<br>MWF 10:00am - 10:50am | Seats (Total: 20)<br>KEY 0123 |

**ENGL278B** **Special Topics in Literature; German Romanticism in its European Context**
**Contact department for information to register for this course.**

**ENGL278N** **Special Topics in Literature; The Romantic Experience in Europe**
**Contact department for information to register for this course.**

**ENGL278O** **Special Topics in Literature; German Romanticism in its European Context**
**Contact department for information to register for this course.**

**ENGL280** **The English Language**

*Explore the many structures and historical developments of the English language, with a focus on techniques of linguistic analysis. Major topics include the sound systems of English and its patterns of word formation and sentence structure, and the ways these have changed over time and vary around the world.*

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| 0201 | Michael Israel<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>TWS 0221 |

**ENGL282** **How Rhetoric Works: Persuasive Power and Strategies**

*Examines how persuasion functions and influences our lives and perception, focusing on a variety of contexts: business, politics, media, law, and entertainment. Students learn persuasive and argumentative principles to understand what rhetoric is, how it works, and what it does, and to apply the knowledge to produce effective communication appropriate for their purpose, audience, and context. A wide range of persuasive media, genres, and forms will be studied to help students sharpen how they interpret and practice persuasion.*

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|---|---|---|
| 0101 | Dylan Carpenter | Seats (Total: 30) |
| | MWF 1:00pm - 1:50pm | TWS 0214 |

**ENGL289G** **Special Topics in English; Machine Learning in Language and Art**

*Introduces students to notable themes and approaches in English studies. Topics vary by section and semester.*

Cross-listed with ARHU299M and COMM298M. Credit only granted for ARHU299M, COMM298M, or ENGL289G. How do language models like ChatGPT generate essays, poems, and stories? How do machine learning models learn to determine the author of a text, or identify the artist behind a painting? What makes language models like ChatGPT different from image generators like Stable Diffusion? And can language models be used to make music? We will teach you how to build models that read and write in natural languages, what makes those models different from applications of machine learning to visual art and music ,how to use Python for data analysis and statistics, how to visualize data, and how to apply mathematical and statistical knowledge to practical problems in the digital humanities. No background in coding or statistics is required, but students with some programming or statistics experience are also very welcome in the course.

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| 0101 | Omar Agha, Sathvik Nair | Seats (Total: 20) |
| | TuTh 9:30am - 10:45am | JMZ 1224 |

**ENGL290** **Introduction to Digital Studies**

*Introductory course in digital studies. Surveys contemporary humanities work in digital technologies, including the web and social media and their historical antecedents. Explores design and making as analytical tools alongside reading and writing. Situates digital media within power and politics and develops critical awareness of how media shape society and ethics. Interdisciplinary approaches to creativity, analysis, and technology. While the course will include hands-on practice, no prior experience of programming, designing, or making required other than a willingness to experiment and play.*

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| 0101 | Himadri Agarwal | Seats (Total: 20) |
| | TuTh 5:00pm - 6:15pm | TWS 1313 |

**ENGL291** **Writing, Revising, Persuading**

*Prerequisite: Must have satisfied Fundamental Studies Academic Writing requirement.*

*Intermediate-level, writing-intensive course for students who have successfully satisfied the Fundamental Studies Academic Writing requirement but wish to hone skills in analyzing and producing rhetorically attuned, well-styled prose. Deeper study of rhetorical theory and its application to a wide variety of arguments and situations. Additional writing practice, techniques of revision, study of effect of stylistic choices. Topics may include argumentation theory, visual rhetoric, stylistic theory, and writing theory.*

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| 0101 | Erin Green<br>MWF 12:00pm - 12:50pm | Seats (Total: 20)<br>TWS 1320 |

**ENGL293** **Writing in the Wireless World**

*Recommended: ENGL101.*

*A hands-on exploration of rhetoric, technology, and digital expression. Study a variety of digital writing and content creation platforms, and learn about theories and practices in digital communication. Learn to analyze and create the kinds of multimodal documents (websites, podcasts, videos) that constitute communication in a digital world.*

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| 0101 | Porter Olsen<br>MWF 2:00pm - 2:50pm | Seats (Total: 22)<br>KEY 0123 |

**ENGL294** **Persuasion and Cleverness in Social Media**

*Recommended: Fundamental Studies Academic Writing requirement.*

*Why are influencers canceled? What role does social media play in the spread of (mis)information? What is possible through social media activism? How does advertising work in online spaces? How do people use social media to discover and craft identity? What role do social media play in user wellbeing? Explore questions like these using ideas from rhetoric to develop critical awareness about power, ideology, and digital content. Learn to create effective, ethical social media content. Become a more informed reader and writer on social media across public, personal, and professional contexts.*

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| 0101 | Morgan Robinson<br>MWF 2:00pm - 2:50pm | Seats (Total: 20)<br>JMZ 2206 |

**ENGL295** **Introduction to Digital Storytelling and Poetics**

*What is the thread weaving through an animated visualization of economic data in a popular newspaper, an indie text-based videogame, a saucy twitter bot spitting out haikus, and an interactive digital essay? Storytelling--using whatever is at hand to communicate with audiences in evocative and connected ways. Combining technical and textual analysis with their own experiments in digital composition, students will learn to use new media techniques for the interpretation, creation, and dissemination of both critical and imaginative writing. From branching narratives to hypertext media and video games, to more recent developments in machine-generated poetry, XR, and embodied and location-based narrative, the methods and materials in this introductory course link creative expression and analysis of texts to contemporary conversations about social difference, representation, interface, and computation.*

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| 0101 | Emily Flamm<br>W 3:30pm - 6:00pm | Seats (Total: 25)<br>TWS 1320 |

**ENGL296** **Reading and Writing Disability**

*Locate and analyze disability in various settings, modes, and texts. Investigate the material and cultural effects of the language, stories, and myths of disability. Explore the many definitions and frameworks of disability: as dynamic lived experiences, as a political identity, as a rich culture, as socially constructed barriers, and as an oppressed minority group. Examine how disability is portrayed, controlled, stereotyped, and celebrated across social, medical, political, cultural, and personal networks.*

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| 0101 | Alan Montroso<br>MWF 11:00am - 11:50am | Seats (Total: 20)<br>EDU 3236 |

**ENGL297** **Research and Writing in the Workplace**

*Prerequisite: ENGL101.*

*Introduction to the rhetorical principles and professional practices of professional writing, particularly the research, writing, communication, analytical, and technological skills needed for the Professional Writing minor. How culture and technology relate to the work of professional writing; design principles and rhetorical moves; digital tools, research skills, and writing strategies of professional writers. Develops skills needed to publish a writing portfolio that showcases students' professional writing competencies and projects their professional writer identities.*

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|---|---|---|
| 0101 | Elizabeth Marshall<br>MW 2:00pm - 3:15pm | Seats (Total: 22)<br>TWS 0232 |
| 0201 | Sonney Wolfe<br>TuTh 2:00pm - 3:15pm | Seats (Total: 22)<br>TWS 0230 |

**ENGL301** **This is English: Fields and Methods**

*Restriction: Must be in English Language and Literature program; or must be in Secondary Educ: English Language Arts program.*

*"English" means a lot of things. Are you looking for literature, or linguistics? For writing--creative, critical, or professional? For theater, or debate? For film, or even videogames? This gateway course for the English major introduces you to all of these areas and more, as well as to our discipline's unique resources for studying and enjoying them. The English discipline includes three main interpretive fields: Literary and Cultural Studies; Language, Writing, and Rhetoric; and Media Studies. This course brings together the fundamental concepts and methods for reading, viewing, and researching practiced in these fields, launching you into English studies and and helping you to choose the major track that is right for you.*

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|---|---|---|
| 0101 | Christina Walter<br>TuTh 11:00am - 12:15pm | Seats (Total: 15)<br>TWS 3132 |

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| 0201 | Sara Wilder<br>MW 2:00pm - 3:15pm | Seats (Total: 15)<br>TWS 3132 |
| 0301 | Lee Konstantinou<br>TuTh 12:30pm - 1:45pm | Seats (Total: 15)<br>TWS 3132 |
| 0401 | Sharada Balachandran Orihuela<br>MW 5:00pm - 6:15pm | Seats (Total: 15)<br>TWS 3132 |

**ENGL302** **Medieval Literature in Translation**

*Surveys major works of English and continental Middle Ages. Readings may include romance, lyric and drama, Germanic epic, works of Dante, Chretien de Troyes, Jean de Meun, Christine de Pisan, Malory, English and continental mystics.*

**Contact department for information to register for this course.**

**ENGL305** **Early Drama**

*Explore medieval and Renaissance drama and performance, placing the Shakespearean stage in its cultural and historical contexts.*

**Contact department for information to register for this course.**

**ENGL310** **Medieval and Renaissance British Literature**

*Explore medieval and Renaissance literary cultures from Beowulf to Mary and Philip Sidney. Read poetry, drama, and narrative from the 10th to the 16th centuries, by authors such as Chaucer, Spenser, Donne, Marlowe, and Lanier. Learn about the history of gender and sexuality, race and class, feudalism and capitalism, philosophies of science and the natural world, manuscript and print cultures, religion, piracy, and witchcraft.*

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| 0101 | Thomas Moser<br>TuTh 11:00am - 12:15pm | Seats (Total: 25)<br>TWS 0234 |

**ENGL311** **British Literature from 1600 to 1800**

*Explore 17th- and 18th-century British literary cultures. Read novels, political writing, poetry and drama by authors such as Milton, Behn, Swift, Equiano, and Wollstonecraft. Learn about the history of empire, colonialism, coffee house culture, female performance, science, philosophy, sexuality, and revolution.*

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| 0101 | Laura Rosenthal<br>MW 2:00pm - 3:15pm | Seats (Total: 25)<br>TWS 0214 |

**ENGL312** **Romantic to Modern British Literature**

*Explore 19th- and 20th-century British and Anglophone literary cultures, including Romanticism, Victorianism, and Modernism. We will read poetry, prose, and drama by authors such as Mary and Percy Shelley to Austen, Dickens, Eliot, Tagore, and Woolf. Learn about the history of empire and resistance, the industrial revolution, capitalism, communism, feminism, race, and new forms of literary and artistic creation.*

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|---|---|---|
| 0101 | Brian Richardson | Seats (Total: 25) |
| | MW 5:00pm - 6:15pm | TWS 0221 |

**ENGL313** **American Literature**

*A detailed study of selected major texts of American literature from the 17th century to the 20th century. Issues such as race, gender, and regionalism. Authors such as Franklin, Hawthorne, Dickinson, Hemingway, and Morrison.*

**Contact department for information to register for this course.**

**ENGL318A** **Special Topics in Digital and New Media Studies; Machines Reading, Machines Writing**

*Explore digital and new media culture, narrative, poetics, and rhetoric. Topics may include creative expression in new media platforms and analytical approaches to electronic literature, social media, interactive fiction, literary datasets, digital writing, and artificial intelligence.*

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| 0101 | Matthew Kirschenbaum, Kari Kraus | Seats (Total: 25) |
| | TuTh 2:00pm - 3:15pm | TWS 1320 |

**ENGL329L** **Special Topics in Film Studies; The Disney Studio and the Animation Industry**

*Studies in various periods and genres of film.*

Cross-listed with CINE319K. Credit granted for ENGL329L, CINE319K or FILM319K. Prerequisite: ENGL245, FILM245, CINE245, SLLC283, or FILM283; or permission of instructor. By examining films, tv shows, video games, and other media created using the brand names of two pivotal children's media figures - Walt Disney and Jim Henson - we will explore different ways that these media afterlives continue to shape the relationship between artist and audience - evenin the artist's absence.

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| 0101 | Paul Cote | Seats (Total: 20) |
| | MWF 12:00pm - 12:50pm | ASY 3219 |

**ENGL329O** **Special Topics in Film Studies; Orson Welles in Film, Theater, Radio, Television, and Beyond**

*Studies in various periods and genres of film.*

Cross-listed with CINE359Y. Credit granted for ENGL329O or CINE359Y. Prerequisite: ENGL245, FILM245, CINE245, SLLC283, or FILM283: or permission of instructor. Actor, director, radio innovator, theater maverick, magician, talk-show guest, ad-pitchman, and unlikely social media icon, Orson Welles has been an icon across mediums for nearly a century. Using the heights and depths of Welles' career as our lens - from Citizen Kane to cantankerous commercial outtakes - this course will trace larger histories of 20th and 21st century media, criticism and theory.

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| 0101 | Paul Cote<br>MWF 1:00pm - 1:50pm | Seats (Total: 20)<br>ASY 3219 |

**ENGL329P** **Special Topics in Film Studies; The Films of Martin Scorsese**

*Studies in various periods and genres of film.*

Cross-listed with CINE359P. Credit granted for ENGL329P or CINE359P. Prerequisite: ENGL245, FILM245, CINE245, SLLC283, or FILM283: or permission of instructor.

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|---|---|---|
| 0101 | Marianne Conroy<br>TuTh 12:30pm - 1:45pm | Seats (Total: 20)<br>ASY 3219 |

**ENGL329V** **Special Topics in Film Studies; Presentations of London in Modern European Literature Film and Fine Art**

*Studies in various periods and genres of film.*

**Contact department for information to register for this course.**

**ENGL344** **Nineteenth-Century Fiction**

*Explore 19th-century English-language novels drawn from around the world: England, Australia, India, South Africa, and the United States. Readings may include canonical novels (Charlotte Bronte's Jane Eyre and George Eliot's Middlemarch) as well as lesser known but extraordinary novels by authors such as Bankimchandra Chattopadhyay and Frances Harper. Topics to be addressed include realism, romance, nationalism, race and racial identity, feminism, sexuality, emigration, empire, and the function of the novel itself.*

**Contact department for information to register for this course.**

**ENGL352** **Intermediate Fiction Workshop**

(Perm req)

*Prerequisite: Minimum grade of A- in ENGL271 or ENGL272; or permission of ARHU-English department.*

*A class in the making of fiction. Intensive discussion of students' own fiction. Readings include both fiction and essays about fiction by practicing writers. Writing short critical papers, responding to works of fiction, and the fiction of colleagues, in-class writing exercises, intensive reading, and thinking about literature, in equal parts, and attendance at readings.*

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|---|---|---|
| 0101 | Rion Scott<br>M 3:30pm - 6:00pm | Seats (Total: 15)<br>TWS 3250 |
| 0201 | Jesse Brooks<br>Th 3:30pm - 6:00pm | Seats (Total: 15)<br>TWS 3252 |
| 0301 | Emily Mitchell<br>Tu 3:30pm - 6:00pm | Seats (Total: 15)<br>TWS 3252 |

**ENGL353** **Intermediate Poetry Workshop**

(Perm req)

*Prerequisite: Minimum grade of A- in ENGL271 or ENGL273; or permission of ARHU-English department.*

*A class in the making of poetry. Intensive discussion of students' own poems. Readings in both poetry and essays about poetry by practicing poets. Writing short critical prose pieces, responding critically to colleagues' poems, in-class and outside writing exercises, memorization, and attendance at poetry readings.*

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| 0101 | Lara Payne<br>M 3:30pm - 6:00pm | Seats (Total: 15)<br>TWS 3134 |

**ENGL358D** **Special Topics in U.S. Latinx Literature; Cuban Poetry & Fiction Post-1980**

*Topical study of selected works by U.S. Latinx writers.*

**Contact department for information to register for this course.**

**ENGL368B** **Special Topics in African American, African, and African Diaspora Literatures; Blues and African American Folksong**

*Topical study of selected literature by African American and Black Diaspora writers from Africa, the Caribbean, North and South America, and beyond.*

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|---|---|---|
| 0201 | Barry Pearson<br>TuTh 12:30pm - 1:45pm | Seats (Total: 25)<br>TWS 0234 |

**ENGL368F** **Special Topics in African American, African, and African Diaspora Literatures; Angela Davis**

*Topical study of selected literature by African American and Black Diaspora writers from Africa, the Caribbean, North and South America, and beyond.*

Cross-listed with AASP398U, AMST328B, and WGSS379U. Credit only granted for AASP398U, AMST328B, ENGL368F, and WGSS379U. This course explores the meaning and significance of Angela Davis work for thinking through issues of race, nation, class, gender, carceral culture, and transnational solidarity. Her life and work is set between theorizing histories of race, racism, class, and gender and political organizing and public intellectual work. We will examine all of these aspects by reading her work from its beginning and up through contemporary commentary on incarceration, Palestine, and related issues. The centerpiece of this course will be her study of African-American music in its Black feminist iteration, Blues Legacies and Black Feminism.

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| 0101 | John Drabinski<br>TuTh 9:30am - 10:45am | Seats (Total: 25)<br>TLF 0110 |

**ENGL368N** **Special Topics in African American, African, and African Diaspora Literatures; Race, Health and Narrative**

*Topical study of selected literature by African American and Black Diaspora writers from Africa, the Caribbean, North and South America, and beyond.*

Cross-listed with AASP398N. Credit only granted with ENGL368N or AASP398N.

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|---|---|---|
| 0101 | Dennis Winston | Seats (Total: 25) |
| | TuTh 9:30am - 10:45am | TWS 1105 |

**ENGL368O** **Special Topics in African American, African, and African Diaspora Literatures; Black Existentialism**

*Topical study of selected literature by African American and Black Diaspora writers from Africa, the Caribbean, North and South America, and beyond.*

Cross-listed with AASP340, PHIL338E, and PHPE308C. Credit only granted for ENGL368O, AASP340, PHIL338E, or PHPE308C.

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|---|---|---|
| 0101 | John Drabinski | Seats (Total: 25) |
| | TuTh 11:00am - 12:15pm | TWS 1106 |

**ENGL369A** **Special Topics in Study Abroad III; The Scene of Reading**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL369B** **Special Topics in Study Abroad III; Representing London: The Eighteenth Century I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL369C** **Special Topics in Study Abroad III; The Dickens City I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL369E** **Special Topics in Study Abroad III; The Crisis of Culture: Literature and Politics 1918-1948**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL369F** **Special Topics in Study Abroad III; British Drama from the 1950s to the Present**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL369G** **Special Topics in Study Abroad III; Adapting Literature to Screen**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL369H** **Special Topics in Study Abroad III; London Stage**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL369K** **Special Topics in Study Abroad III; Great Directors**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL369L** **Special Topics in Study Abroad III; Angloamerican Travelers in Spain**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL369Q** **Special Topics in Study Abroad III; Literature of the Shoah**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL369Z** **Special Topics in Study Abroad III; The London Stage**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL373** **Senior Honors Project**

(Perm req)

*Prerequisite: ENGL370. Restriction: Must be in English Language and Literature program.*

*Research and writing of senior honors project. Strongly recommended for students planning graduate work.*

| | | |
|---|---|---|
| 0101 | Kim Coles | Seats (Total: 20) |
| | M 3:30pm - 5:30pm | TWS 3252 |

**ENGL375** **J.R.R. Tolkien: Middle-earth and Beyond**

*An in-depth look at major themes and ideas spanning Tolkien's well-known and lesser-known works across a variety of genres and styles. We will study "The Hobbit" and "The Lord of the Rings" in connection with Tolkien's back-story mythology expressed in "The Silmarillion." We will also consider film adaptations and other popular fantasy influenced by Tolkien. And we will explore lesser-known works such as "Farmer Giles of Ham," and Tolkien's essays on fairy stories and on "Beowulf.*

| | | |
|---|---|---|
| 0101 | Thomas Moser | Seats (Total: 25) |
| | TuTh 9:30am - 10:45am | TWS 0234 |

**ENGL381** **MGA Legislative Seminar**

(Perm req)

*Prerequisite: Students who have taken courses with comparable content may contact the department; or ENGL101. Restriction: Permission of ARHU-English department. Cross-listed with: HONR368A. Credit only granted for: HONR368A or ENGL381. Additional information: Application required. Contact english@umd.edu for more information.*

*Prepares students to intern for the Maryland General Assembly. Introduces standard legislative genres and assigns extended practice in researching legislative issues.*

Cross-listed with HONR368A. Credit only granted for one of the following : ENGL381 or HONR368A. Admission to this course is by application only. Click here for more details.

| | | |
|---|---|---|
| 0101 | Blake Wilder | Seats (Total: 15) |
| | TuTh 9:30am - 10:45am | TWS 3250 |

**ENGL383** **Language in Its Social Contexts**

*Exploration of the social and political aspects of language use, including interactional behavior, the structure of conversation, persuasive uses of language, social dialects, language use within speech communities, and language and identity. We will examine and compare analytical approaches to pragmatics and discourse analysis.*

| | | |
|---|---|---|
| 0101 | Michael Israel | Seats (Total: 25) |
| | TuTh 9:30am - 10:45am | TWS 0221 |

**ENGL388D** **Writing, Research, and Media Internships; Dickinson Electronic Archives**

(Perm req)

*Explore career-facing opportunities on campus, in the D.C. metro area, and beyond. English internships can be individualized, working with businesses, not-for-profit organizations, state and federal governments, high schools, and incarcerated students. We also offer structured internship pathways with the Maryland General Assembly Program, the Emily Dickinson Electronic Archives, the Writing Center, our Undergraduate Teaching Assistant Program, and BookLab, our makerspace and letterpress printing studio.*

Prerequisite: permission of department. Repeatable to 12 credits.

| | | |
|---|---|---|
| 0101 | Martha Nell Smith | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**ENGL388E** **Writing, Research, and Media Internships; BookLab Internship**

(Perm req)

*Explore career-facing opportunities on campus, in the D.C. metro area, and beyond. English internships can be individualized, working with businesses, not-for-profit organizations, state and federal governments, high schools, and incarcerated students. We also offer structured internship pathways with the Maryland General Assembly Program, the Emily Dickinson Electronic Archives, the Writing Center, our Undergraduate Teaching Assistant Program, and BookLab, our makerspace and letterpress printing studio.*

Prerequisite: permission of the department.

| | | |
|---|---|---|
| 0101 | Matthew Kirschenbaum | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**ENGL388P** **English Careers Internship**

(Perm req)

*Prerequisite: Permission of ARHU-English department. Repeatable to 12 credits if content differs. Additional information: Each enrolled credit equals 45 hours of on-site internship work.*

*Students receive credit for an internship of their choice that focuses at least half of its work on core English skills such as writing, editing, and research. Students secure their own internship placements. Course assignments include, for instance, an activity log, reflection papers, a supervisor evaluation, and a final portfolio of work.*

Prerequisite: permission of department. Repeatable to 12 credits. Contact english@umd.edu.

| | | |
|---|---|---|
| 0101 | Karen Lewis | Seats (Total: 15) |
| | Contact instructor or department for details. | |

**ENGL388T** **Writing, Research, and Media Internships; Maryland Institute for Technology in the Humanities Internships**

(Perm req)

*Explore career-facing opportunities on campus, in the D.C. metro area, and beyond. English internships can be individualized, working with businesses, not-for-profit organizations, state and federal governments, high schools, and incarcerated students. We also offer structured internship pathways with the Maryland General Assembly Program, the Emily Dickinson Electronic Archives, the Writing Center, our Undergraduate Teaching Assistant Program, and BookLab, our makerspace and letterpress printing studio.*

Prerequisite: permission of department. Repeatable to 12 credits.

| | | |
|---|---|---|
| 0101 | Jeffrey Moro | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**ENGL388V** **Undergraduate Teaching Assistants in English**

(Perm req)

*Prerequisite: Permission of the ARHU-English department. Repeatable to 12 credits. Additional information: Students should consult with the UTA Coordinator to determine the number of enrollment credits.*

*A weekly teaching practicum and concurrent internship as an undergraduate teaching assistant in an English course. Students will explore the theories and best practices of teaching and learning in the various fields of the English discipline, particularly writing and literary studies. The emphasis is on creating inclusive classrooms and working with diverse learners and is grounded in theories of critical pedagogy. Students will apply principles of learning theory to develop and facilitate learner-centered lessons and discussions. They will also study composition pedagogy in preparation for responding to student writing in the course for which they are an assistant.*

Prerequisite: permission of department. Repeatable to 12 credits. Contact Lyra Hilliard, lyrahill@umd.edu. Students taking ENGL388V for the first time should register for section 0101 or 0401 for 4 credits. When taking the course again in subsequent semesters, students should register for 2001 or 3001 for 3 credits.

| | | |
|---|---|---|
| 0101 | Lyra Hilliard<br>W 3:30pm - 5:00pm | Seats (Total: 20)<br>ASY 1213 |
| 0401 | Caroline Wilkins<br>Tu 3:30pm - 5:00pm | Seats (Total: 20)<br>TWS 1106 |
| 2001 | Lyra Hilliard<br>Contact instructor or department for details. | Seats (Total: 10) |
| 3001 | Caroline Wilkins<br>Contact instructor or department for details. | Seats (Total: 10) |

**ENGL388W** **Writing Center Internship**

(Perm req)

*Prerequisite: Permission of the Writing Center (1205 Tawes Hall). Repeatable to 12 credits. Cross-listed with: SPAN388W. Credit only granted for: ENGL388W or SPAN388W.*

*Examines face-to-face and online writing center theory and practice through readings, exercises, and supervised tutoring. Students investigate the writing process and help other writers to negotiate it.*

Students taking ENGL388W for the first time should register for section 0101 for 4 credits. When taking the course again in subsequent semesters, students should register for 2001.

*Click here to apply.*

| | | |
|---|---|---|
| 0101 | Thomas Earles<br>M 3:30pm - 6:00pm<br>*Students registering for 0101 should register for four credits.* | Seats (Total: 20)<br>TWS 0224 |
| 2001 | Thomas Earles<br>Contact instructor or department for details. | Seats (Total: 4) |

**ENGL390** **Science Writing**

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits; and junior standing or higher. Credit only granted for: ENGL390 or ENGL393S. Formerly: ENGL393S.*

*Specifically designed for students interested in further study in the physical and biological sciences. Exposes students to the conventions of scientific prose in the genres of research articles and proposals. Students also learn to accommodate scientific information to general audiences.*

*Click here for more course information.*

| | | |
|---|---|---|
| 0301 | Katherine Oneill<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>TWS 0232 |
| 0401 | Katherine Oneill<br>MWF 12:00pm - 12:50pm | Seats (Total: 19)<br>TWS 0224 |
| 0501 | Katherine Oneill<br>MWF 1:00pm - 1:50pm | Seats (Total: 19)<br>TWS 1105 |
| 1501 | Robin Allen-Klein<br>TuTh 3:30pm - 4:45pm | Seats (Total: 19)<br>TWS 1320 |
| 1505 | Robin Allen-Klein<br>TuTh 5:00pm - 6:15pm | Seats (Total: 19)<br>TWS 0230 |
| 1601 | Richard Reynnells<br>Tu 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 1321 |
| 1801 | Richard Reynnells<br>W 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 1321 |
| 1901 | Aysha Jawed<br>M 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 0224 |
| 1902 | Aysha Jawed<br>Th 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 0224 |

**ENGL390H** **Science Writing**

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits; and junior standing or higher. Credit only granted for: ENGL390 or ENGL393S. Formerly: ENGL393S.*

*Specifically designed for students interested in further study in the physical and biological sciences. Exposes students to the conventions of scientific prose in the genres of research articles and proposals. Students also learn to accommodate scientific information to general audiences.*

Restricted to students in the Honors College or departmental Honors programs.

| | | |
|---|---|---|
| 0101 | Marybeth Shea<br>MWF 9:00am - 9:50am | Seats (Total: 19)<br>ONLINE |
| 0201 | Gregory Deinert<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>TWS 0224 |
| 0301 | Marybeth Shea<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>ONLINE |

**ENGL391** **Advanced Composition**

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.*

*An advanced composition course which emphasizes constructing written arguments accommodated to real audiences.*

*Click here for more course information.*

| | | |
|---|---|---|
| 0401 | Mark Forrester<br>MWF 12:00pm - 12:50pm | Seats (Total: 19)<br>TWS 1321 |
| 0402 | Catherine Byrne<br>MWF 12:00pm - 12:50pm | Seats (Total: 19)<br>LEF 1221 |
| 0501 | Catherine Byrne<br>MWF 1:00pm - 1:50pm | Seats (Total: 19)<br>KEY 0121 |
| 0601 | Catherine Byrne<br>MW 2:00pm - 3:15pm | Seats (Total: 19)<br>TWS 3250 |
| 0701 | Anna Josephson<br>MW 3:30pm - 4:45pm | Seats (Total: 19)<br>KEY 0124 |
| 0801 | Catherine Byrne<br>MW 5:00pm - 6:15pm | Seats (Total: 19)<br>JMZ 2122 |

| | | |
|---|---|---|
| 0901 | Anna Josephson<br>MW 6:30pm - 7:45pm | Seats (Total: 19)<br>ASY 3221 |
| 1101 | Christopher Crane<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>JMZ 0125 |
| 1201 | John Kim<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>TWS 3136 |
| 1301 | Christopher Crane<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>TWS 1105 |
| 1505 | Olubukola Salako<br>TuTh 5:00pm - 6:15pm | Seats (Total: 19)<br>KNI 1206 |
| 1701 | Thomas Earles<br>Tu 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 1105 |
| 1901 | Mark Fitzgerald<br>Th 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 0232 |
| 9001 | Sajeela Yaqub<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9002 | Mark Fitzgerald<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9003 | Daune O'Brien<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9004 | Daune O'Brien<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9005 | Daune O'Brien<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9006 | Daune O'Brien<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9007 | Emily Flamm<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |

**ENGL391H** **Advanced Composition**

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.*

*An advanced composition course which emphasizes constructing written arguments accommodated to real audiences.*

Restricted to students in the Honors College or departmental Honors programs.

*Click here for more course information.*

| | | |
|---|---|---|
| 0201 | Mark Forrester<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>EDU 3233 |

**ENGL392** **Legal Writing**

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.*

*Conventions of legal writing and research. Students learn how to read and write about cases, statutes, or other legislation; how to apply legal principles to fact scenarios; and how to present a written analysis for readers in the legal profession. Assignments may include the law-school application essay, case briefs, legal memos, and client letters.*

*Click here for more course information.*

| | | |
|---|---|---|
| 1101 | John Kim<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>TWS 1321 |
| 1301 | John Kim<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>TWS 0230 |
| 1401 | Roberta Ward<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>TWS 0207 |
| 1601 | Esthus Amos<br>M 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 0232 |
| 1701 | Sara Faradji<br>Tu 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 0232 |
| 1801 | Esthus Amos<br>W 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 0232 |

**ENGL393** **Technical Writing**

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.*

*Focuses on the writing of technical papers and reports.*

*Click here for more course information.*

| | | |
|---|---|---|
| 0001 | Patrick Nelson<br>MWF 8:00am - 8:50am | Seats (Total: 19)<br>TWS 1320 |
| 0303 | Joan Mooney<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>TWS 1313 |
| 0401 | Joan Mooney<br>MWF 12:00pm - 12:50pm | Seats (Total: 19)<br>TWS 1313 |
| 0501 | Sarah Goodson<br>MWF 1:00pm - 1:50pm | Seats (Total: 19)<br>TWS 0232 |
| 0601 | Sarah Goodson<br>MW 2:00pm - 3:15pm | Seats (Total: 19)<br>ASY 3219 |
| 0801 | Alexandra Calloway<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 1101 | Aaron Bartlett<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>EDU 3233 |
| 1201 | Sonney Wolfe<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>TWS 0230 |
| 1402 | Aubrey Zinn<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>ASY 3207 |
| 1501 | Aubrey Zinn<br>TuTh 3:30pm - 4:45pm | Seats (Total: 19)<br>ASY 3219 |
| 1505 | Sonney Wolfe<br>TuTh 5:00pm - 6:15pm | Seats (Total: 19)<br>TWS 0224 |
| 1602 | Kelly Cresap<br>M 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 1105 |

| | | |
|---|---|---|
| 1702 | Sonney Wolfe<br>Tu 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 0230 |
| 1801 | Kelly Cresap<br>W 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 1105 |
| 1902 | Patrick Nelson<br>Th 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 1320 |
| 9001 | Phillip Moses<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9002 | Phillip Moses<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9003 | Danuta Hinc<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9004 | Daniel Saalfeld<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9005 | Daniel Saalfeld<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9006 | Daniel Saalfeld<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9007 | Daniel Saalfeld<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9008 | Kathleen Orr<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9009 | Ann Mason<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9010 | Ann Mason<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9011 | Ann Mason<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |

| | | |
|---|---|---|
| 9012 | Michelle Von Euw<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9013 | Michelle Von Euw<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9014 | Dennis Winston<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9015 | Dennis Winston<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9016 | Dennis Winston<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9017 | Andrew Delfino<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9018 | Andrew Delfino<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9019 | Andrew Delfino<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9020 | Andrew Delfino<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9021 | Sarah Dammeyer<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9022 | Sarah Dammeyer<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9023 | Sarah Dammeyer<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9024 | Sarah Goodson<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9025 | Sarah Goodson<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |

| | | |
|---|---|---|
| 9026 | Jesse Brooks<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9027 | Michael Schmidt<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9028 | Michael Schmidt<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| ESG1 | Joshua Buursma<br>Class time/details on ELMs<br>*Restricted to students at Shady Grove.* | Seats (Total: 12)<br>ONLINE |
| ESG2 | Joshua Buursma<br>Class time/details on ELMs<br>*Restricted to students at Shady Grove.* | Seats (Total: 19)<br>ONLINE |
| ESM1 | Joshua Buursma<br>Class time/details on ELMs<br>*Restricted to Electrical and Mechanical Engineering students at Souther Maryland.* | Seats (Total: 7)<br>ONLINE |

**ENGL393H** **Technical Writing**

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.*

*Focuses on the writing of technical papers and reports.*

Restricted to students in the Honors College or departmental Honors programs.

*Click here for more course information.*

| | | |
|---|---|---|
| 1202 | Aubrey Zinn<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>TWS 1313 |

**ENGL393Q** **Technical Writing**

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.*

*Focuses on the writing of technical papers and reports.*

| | | |
|---|---|---|
| 3001 | Edward Daschle<br>F 9:00am - 11:40am | Seats (Total: 19)<br>TWS 3132 |
| | *The writing of technical papers and reports with additional service learning hours required to be completed as part of the course.* | |

**ENGL393X** **Technical Writing**

(Perm req)

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.*

*Focuses on the writing of technical papers and reports.*

Limited to students for whom English is a second language and who have a score below any of the following: SAT Verbal 400, TOEFL 575, CELT 250. Students who have received an "A" in ENGL 101 or its equivalent cannot register for ENGL 393X.

*Click here for more course information.*

| | | |
|---|---|---|
| 1501 | Sonney Wolfe<br>TuTh 3:30pm - 4:45pm | Seats (Total: 15)<br>KEY 0124 |

**ENGL394** **Business Writing**

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.*

*Intensive practice in the forms of written communication common in the business world: letters, memos, short reports, and proposals. Focus on the principles of rhetoric and effective style.*

*Click here for more course information.*

| | | |
|---|---|---|
| 0102 | Kara Pleasants<br>MWF 9:00am - 9:50am | Seats (Total: 19)<br>TWS 1105 |
| 0201 | Kara Pleasants<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>TWS 1105 |
| 0302 | Jay Wilcox<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>TWS 1320 |
| 0401 | Jay Wilcox<br>MWF 12:00pm - 12:50pm | Seats (Total: 19)<br>TWS 3136 |

| | | |
|---|---|---|
| 0501 | Jay Wilcox<br>MWF 1:00pm - 1:50pm | Seats (Total: 19)<br>TWS 3252 |
| 0601 | Anna Szczepaniec-Bialas<br>MW 2:00pm - 3:15pm | Seats (Total: 19)<br>TWS 0224 |
| 0701 | Anna Szczepaniec-Bialas<br>MW 3:30pm - 4:45pm | Seats (Total: 19)<br>TWS 0230 |
| 0801 | Shannon Zellars Strohl<br>MW 5:00pm - 6:15pm | Seats (Total: 19)<br>JMZ 0122 |
| 1101 | John Tobin<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>TWS 3132 |
| 1201 | Adam Lloyd<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>TWS 1320 |
| 1301 | Adam Lloyd<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>TWS 1320 |
| 1303 | Blake Wilder<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>TWS 3250 |
| 1401 | Blake Wilder<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>TWS 3250 |
| 1501 | John Tobin<br>TuTh 3:30pm - 4:45pm | Seats (Total: 19)<br>KEY 0119 |
| 1505 | John Tobin<br>TuTh 5:00pm - 6:15pm | Seats (Total: 19)<br>TWS 1105 |
| 1601 | Jonathan Rick<br>M 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 0205 |
| 1701 | Robert Harris<br>Tu 6:30pm - 9:10pm | Seats (Total: 19)<br>ASY 3221 |
| 1902 | Robert Harris<br>Th 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 1105 |

| | | |
|---|---|---|
| 9001 | Pam Orel<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9002 | Pam Orel<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9003 | Pam Orel<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9004 | Pam Orel<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9005 | David Miles<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9006 | David Miles<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9007 | Clare Parsons<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9008 | Clare Parsons<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9009 | Clare Parsons<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9010 | Sajeela Yaqub<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9011 | Sajeela Yaqub<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9012 | Erica Cochran<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9013 | Erica Cochran<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9014 | Shannon Zellars Strohl<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |

| | | |
|---|---|---|
| 9015 | Shannon Zellars Strohl<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9016 | Eric Bond<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9017 | Robert Harris<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9018 | Robert Harris<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9019 | Sara Faradji<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9020 | Sara Faradji<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9021 | Marina Ellis<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9022 | Marina Ellis<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9023 | Clare Parsons<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9024 | Nicole Cuffy<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9025 | Nicole Cuffy<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9026 | Nicole Cuffy<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9027 | Marina Ellis<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |
| 9028 | Nasim DarouieHaghighi<br>Class time/details on ELMs | Seats (Total: 19)<br>ONLINE |

| | | |
|---|---|---|
| ESG2 | David Miles<br>Class time/details on ELMs<br>*Restricted to students at Shady Grove.* | Seats (Total: 19)<br>ONLINE |
| ESG3 | David Miles<br>Class time/details on ELMs<br>*Restricted to students at Shady Grove.* | Seats (Total: 19)<br>ONLINE |
| ESG4 | Holly Smith<br>TuTh 12:30pm - 1:45pm<br>*Restricted to students at Shady Grove.* | Seats (Total: 19)<br>BLD3 2225 |
| ESG5 | Holly Smith<br>TuTh 11:00am - 12:15pm<br>*Restricted to students at Shady Grove.* | Seats (Total: 19)<br>BLD3 2225 |

**ENGL395** **Writing for Health Professions**

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.*

*Focus on accommodating health-related technical material and empirical studies to lay audiences, and helping writers to achieve stylistic flexibility and correctness.*

*Click here for more course information.*

| | | |
|---|---|---|
| 0101 | Michael Schmidt<br>MWF 9:00am - 9:50am | Seats (Total: 19)<br>TWS 1313 |
| 0201 | Michael Schmidt<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>TWS 0232 |
| 0301 | Zoe Alsop<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>TWS 0230 |
| 0401 | Justin Lohr<br>MWF 12:00pm - 12:50pm | Seats (Total: 19)<br>TWS 0230 |
| 0501 | Justin Lohr<br>MWF 1:00pm - 1:50pm | Seats (Total: 19)<br>TWS 0224 |

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|---|---|---|
| 0601 | Justin Lohr<br>MW 2:00pm - 3:15pm | Seats (Total: 19)<br>TWS 0230 |
| 0602 | Zoe Alsop<br>MWF 2:00pm - 2:50pm | Seats (Total: 19)<br>KEY 0124 |
| 0801 | Elizabeth Marshall<br>MW 5:00pm - 6:15pm | Seats (Total: 19)<br>TWS 0232 |
| 0901 | Sarah Dammeyer<br>MW 6:30pm - 7:45pm | Seats (Total: 19)<br>TWS 1313 |
| 1001 | Elizabeth Marshall<br>TuTh 8:00am - 9:15am | Seats (Total: 19)<br>TWS 1105 |
| 1101 | Robert Lucci<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>JMZ 1120 |
| 1201 | Kisa Lape<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>ASY 3221 |
| 1301 | Kisa Lape<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>ASY 3221 |
| 1402 | Kisa Lape<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>TWS 3132 |
| 1501 | Kisa Lape<br>TuTh 3:30pm - 4:45pm | Seats (Total: 19)<br>TWS 0230 |
| 1502 | Brandee Pettus<br>TuTh 3:30pm - 4:45pm | Seats (Total: 19)<br>TWS 1321 |
| 1505 | Olutoyin Adeyemi<br>TuTh 5:00pm - 6:15pm | Seats (Total: 19)<br>TWS 1321 |
| 1506 | Eric Bond<br>TuTh 5:00pm - 6:15pm | Seats (Total: 19)<br>KNI 1105 |
| 1507 | Eric Bond<br>TuTh 6:30pm - 7:45pm | Seats (Total: 19)<br>TWS 3136 |

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|---|---|---|
| 1701 | Olutoyin Adeyemi<br>Tu 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 3250 |
| ESG1 | Kevin Wisniewski<br>Class time/details on ELMs<br>*Restricted to students at Shady Grove.* | Seats (Total: 19)<br>ONLINE |

**ENGL398A** **Writing for the Arts**

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.*

*Examines the situations and genres in which working professionals (practitioners, advocates, administrators, and educators) write about art, culture, and artists. The course covers the complex process that writers need to learn, including how to accommodate information to specific audiences, how to use stylistic and visual devices to make information more accessible, and how to edit their own work as well as that of their peers. Assignments parallel the writing demands that students will face in the workplace, including analyzing and composing artist statements, an arts manifesto, art education guides, press releases about artists and their work, critical reviews of exhibits and performances, and proposals to funding agencies and foundations.*

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. Not open to students who have completed ENGL391A. Credit will be granted for only one of the following: ENGL398A or ENGL391A. Formerly ENGL391A. An advanced composition course which emphasizes writing about the arts.

*Click here for more course information.*

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|---|---|---|
| 1001 | Aaron Bartlett<br>TuTh 8:00am - 9:15am | Seats (Total: 19)<br>TWS 3132 |
| 1101 | Caroline Wilkins<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>TWS 1320 |
| 1601 | Gerard Holmes<br>M 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 3132 |
| 1701 | Mark Fitzgerald<br>Tu 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 0224 |
| 1801 | Peter Witte<br>W 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 3132 |

**ENGL398B** **Writing for Social Entrepreneurship**

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.*

*Designed for students who want to develop the skills needed to start a successful social venture--a start-up business with a social mission or a new nonprofit program. The course centers on a major writing project such as a business plan, a website design plan, a fundraising proposal, or a concept paper for a new nonprofit organization. Students produce other communication projects that social entrepreneurs use to develop their businesses and nonprofits, such as presentations or pitches to prospective investors/donors, marketing materials, and a job announcement. Students will learn from local social entrepreneurs who share their experiences of using writing to succeed in the field.*

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement.

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|---|---|---|
| 0601 | Eric Thiel<br>MW 2:00pm - 3:15pm | Seats (Total: 19)<br>TWS 3252 |
| 0701 | Eric Thiel<br>MW 3:30pm - 4:45pm | Seats (Total: 19)<br>ASY 3219 |
| 0801 | Eric Thiel<br>MW 5:00pm - 6:15pm | Seats (Total: 19)<br>TWS 1313 |
| 1601 | Mrim Boutla<br>M 6:30pm - 9:10pm | Seats (Total: 19)<br>ASY 3219 |
| 1701 | Mrim Boutla<br>Tu 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 1313 |
| 1901 | Roxanne Clements<br>Th 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 1313 |

**ENGL398C** **Writing Case Studies and Investigative Reports**

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.*

*Designed for students interested in becoming police investigators, educators, case workers, insurance adjusters, nurses, or program evaluators, or in entering branches of the social sciences that investigate cases and value reports based on accurate descriptions and compelling narratives. Such reports must be factual and yet useful to decision makers, unbiased and yet focused. Students study genres and language skills from careful summarizing to convincing storytelling.*

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. An advanced composition course which emphasizes writing cases and investigative reports.

*Click here for more course information.*

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|---|---|---|
| 0701 | Kevin Wisniewski<br>MW 3:30pm - 4:45pm | Seats (Total: 19)<br>TWS 3132 |
| 0801 | Kevin Wisniewski<br>MW 5:00pm - 6:15pm | Seats (Total: 19)<br>TWS 0230 |
| 1101 | Kathleen Orr<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>KNI 1105 |
| 1301 | Alexandra Omogbadegun<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>KEY 0125 |
| 1507 | Kevin Wisniewski<br>MW 6:30pm - 7:45pm | Seats (Total: 19)<br>TWS 1320 |

**ENGL398E** **Writing About Economics**

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.*

*Examines the characteristic genres of writing in modern economics, including theoretical and empirically based journal articles, reports for government and commercial clients, and economic information presented to a variety of non-professional audiences, such as citizen-oriented and public policy organizations. Students learn how to analyze these documents rhetorically and how to communicate economic information using the content, arrangement, style, and visual graphics best suited to the purposes and standards of particular audiences. Core assignments include a genre-based journal and document analysis, presentations on economics-related topics for both economists and non-professional audiences, and a major research-based writing project for an audience outside of the classroom.*

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|---|---|---|
| 0801 | Anna Josephson<br>MW 5:00pm - 6:15pm | Seats (Total: 19)<br>ASY 3219 |

**ENGL398L** **Scholarly Writing in the Humanities**

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.*

*Examines scholarship in the humanities as a genre of professional writing and investigates the norms and procedures of advanced academic writing. Assignments parallel the writing demands that students will face in the academic workplace, including a graduate school application essay, a genre review, an annotated bibliography, a journal article, and an oral presentation of article subject matter.*

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. An advanced composition class focusing on the norms and procedures of advanced academic writing.

*Click here for more course information.*

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|---|---|---|
| 0301 | Mark Forrester<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>TWS 1105 |

**ENGL398N** **Writing for Non-Profit Organizations**

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.*

*Examines professional writing and communication work in the non-profit sector. Students will analyze the audiences and document genres that they may encounter in real-world non-profit work and will learn how to compose many of these documents, from press releases and other public relations material to position papers, reports, and grant proposals. Students may also have the opportunity to add a service-learning component to the course by working with and for an area non-profit.*

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. Not open to students who have completed ENGL394N. Credit will be granted for only one of the following ENGL398N or ENGL394N. Formerly ENGL394N. A busniness writing class focusinog on writing about nonprofits.

*Click here for more course information.*

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|---|---|---|
| 0301 | Gerard Holmes<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>TWS 3252 |
| 0401 | Gerard Holmes<br>MWF 12:00pm - 12:50pm | Seats (Total: 19)<br>TWS 0232 |
| 0601 | Ruth Phillips<br>MW 2:00pm - 3:15pm | Seats (Total: 19)<br>ASY 3221 |
| 0801 | Gerard Holmes<br>MW 5:00pm - 6:15pm | Seats (Total: 19)<br>TWS 1321 |
| 1001 | Alexandra Omogbadegun<br>TuTh 8:00am - 9:15am | Seats (Total: 19)<br>TWS 0232 |
| 1101 | Rebecca Holden<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>TWS 0232 |

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|---|---|---|
| 1201 | Rebecca Holden<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>TWS 0232 |
| 1301 | David Todd<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>TWS 0232 |
| 1401 | David Todd<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>TWS 1313 |

**ENGL398R** **Writing Non-Fictional Narratives**

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.*

*Approaches nonfiction narrative-a kind of writing influenced by fiction, magazine journalism, memoir, and personal essay--as a form of professional writing used in publishing and a range of careers involving proposal writing, work documentation, lobbying, social marketing, and political commentary, among others. Students learn to use many of the same tools as fiction writers, such as dialogue, vivid description, developing characters, nonlinear structure, and shifts in tense, time, and points of view. They also learn how to edit their own work as well as that of their peers, doing multiple revisions of the major assignments for a final portfolio. Major assignments include essays targeted to specific publications, query letters, audience analysis, and a publisher analysis.*

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement.

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|---|---|---|
| 1001 | John Tobin<br>TuTh 8:00am - 9:15am | Seats (Total: 19)<br>TWS 1321 |
| 1101 | Pamela Gerhardt<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>TWS 0224 |
| 1102 | Danuta Hinc<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>TWS 3252 |
| 1201 | Pamela Gerhardt<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>TWS 0224 |
| 1301 | Pamela Gerhardt<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>TWS 0224 |
| 1401 | Danuta Hinc<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>TWS 0224 |

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|---|---|---|
| 1501 | Danuta Hinc<br>TuTh 3:30pm - 4:45pm | Seats (Total: 19)<br>TWS 0224 |

**ENGL398V** **Writing About the Environment**

*Prerequisite: Must have fulfilled the Academic Writing (FSAW) requirement. Restriction: Must have earned a minimum of 60 credits.*

*Designed for those aspiring to work in a variety of fields that influence and are influenced by environmental science, including public policy, advocacy, science, and industry. Students learn to apply principles of technical writing to a range of scenarios and issues particular to the intersection of scientific knowledge and environmental policy. Writing audiences range from the public to decision-makers. The course emphasizes writing both within and across disciplines to enlist research for practical contexts.*

Prerequisite: 60 credits and completion of ENGL101 or equivalent. This course satisfies the professional writing requirement. Not open to students who have completed ENGL393E. Credit will be granted for only one of the following ENGL398V or ENGL393E. Formerly ENGL393E.

*Click here for more course information.*

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|---|---|---|
| 1201 | Elizabeth Chang<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>TWS 0230 |
| 1301 | Heidi Scott<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>TWS 1321 |
| 1501 | Annemarie Ewing<br>TuTh 3:30pm - 4:45pm | Seats (Total: 19)<br>JMZ 1120 |
| 1502 | Leigha McReynolds<br>TuTh 3:30pm - 4:45pm | Seats (Total: 19)<br>ATL 0201 |
| 1701 | Jesse Brooks<br>Tu 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 1320 |
| 1702 | Jesse Brooks<br>Th 6:30pm - 9:10pm | Seats (Total: 19)<br>TWS 3250 |

**ENGL402** **Chaucer**

*Prerequisite: Two English courses beyond Fundamental Studies; or permission of ARHU-English Department.*

*Explore the works of Geoffrey Chaucer in their literary and cultural environment. Texts read in Middle English. Readings may include Canterbury Tales, Troilus and Criseyde, dream visions, and lyric poems.*

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| 0101 | Kellie Robertson<br>MW 2:00pm - 3:15pm | Seats (Total: 20)<br>TWS 1105 |

**ENGL404** **Shakespeare: The Later Works**

*Prerequisite: Two English courses beyond Fundamental Studies; or permission of ARHU-English Department.*

*Close study of selected plays from the second half of Shakespeare's career. Generic issues of later tragedies, later comedies, romances. Language, theme, dramatic technique, sources, and early modern English social-historical context.*

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| 0101 | Gerard Passannante<br>MW 3:30pm - 4:45pm | Seats (Total: 20)<br>TWS 0232 |

**ENGL409A** **Study Abroad Special Topics IV; Solitude in Life and Letters in Enlightenment Britain**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL409B** **Study Abroad Special Topics IV; Shakespeare: The Play and the Book**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL409C** **Study Abroad Special Topics IV; Shakespeare's Italian Plays**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL409D** **Study Abroad Special Topics IV; Time, Narrative and Culture (Sem A)**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL409E** **Study Abroad Special Topics IV; The Revolution Controversy: Politics and Genre**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL409F** **Study Abroad Special Topics IV; Grand Tours: Nineteenth Century Adventure Stories for Young Readers and their Twentieth Century Afterlives**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL409G** **Study Abroad Special Topics IV; Thomas Hardy and the Victorian Modern**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL409H** **Study Abroad Special Topics IV; The Caribbean Novel**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL409I** **Study Abroad Special Topics IV; The New York Century: Urban Literary Culture 1900-1999**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL409L** **Study Abroad Special Topics IV; Literature of London**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL409P** **Study Abroad Special Topics IV; Phonies, Fakes, Liars and Conmen: Readings in Fact and Fiction**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ENGL412** **Literature of the Seventeenth Century, 1600-1660**

*Prerequisite: Two English courses beyond Fundamental Studies; or permission of ARHU-English Department.*

*Explore the idea of change--from small adjustments in perspective to political revolutions--in the seventeenth century. We will take up literary experiments such as Edmund Spenser's terrifying vision of cosmic mutability in The Faerie Queene, John Donne's awareness of his vulnerable body as he endures the various stages of an illness, and Margaret Cavendish's embrace of science fiction to imagine new configurations of social life. Topics might include the Reformation and its aftermath; the scientific revolution; the English civil wars; the experience of religious conversion; shifting ideas of race and ethnicity; transatlantic travel and colonial expansion; the idea of "progress" and resistance to it; the agency of women in literary culture and political struggle; changing norms around sexual behavior and identity; and the unstable idea of literature itself. Authors may include Montaigne, Shakespeare, Jonson, Donne, Herbert, Galileo, Marvell, Hooke, Cavendish, Behn, and Milton.*

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| 0101 | Michael Olmert | Seats (Total: 15) |
| | W 3:30pm - 6:00pm | TWS 0224 |

**ENGL414** **Milton**

*Prerequisite: Two English courses beyond Fundamental Studies; or permission of ARHU-English Department.*

*Explore the works of John Milton in their literary and cultural environment. Poetry and major prose, with special attention to Paradise Lost. Other works may include Samson Agonistes and shorter poems.*

**Contact department for information to register for this course.**

**ENGL420** **English Romantic Literature**

*Prerequisite: Two English courses beyond Fundamental Studies; or permission of ARHU-English Department.*

*Explore a time (roughly 1780-1830) of great change, political revolution, empire-building, changing economic and sexual relations, and philosophical innovation. Arguably, many of our contemporary notions about literature and what an author is were created during this period. Consider the influence of these changes in such authors as Blake, Wordsworth, Coleridge, Shelley, Keats, Byron, Godwin, Wollstonecaft, Austen, and more.*

**Contact department for information to register for this course.**

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**ENGL422A** **English Victorian Literature**

*Prerequisite: Two English courses beyond Fundamental Studies; or permission of ARHU-English Department.*

*An age of cultural, political, and aesthetic upheaval, the Victorian period was a time of enormous social change: working-class agitation, struggles for women's rights, industrialization, imperial aggression, scientific discovery, and shifting ideas about race and colonialism. Through the study of novels, poems, and non-fiction prose, this course will consider how literature of the British nineteenth century engages with the disordered age in which it was composed. Authors may include Charles Dickens, Elizabeth Gaskell, Elizabeth Barrett Browning, George Eliot, Alfred Tennyson, and Mary Seacole, among others.*

**Contact department for information to register for this course.**

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**ENGL428Z** **Seminar in Language and Literature; The Modern Prose Epic:Joyce, Woolf, Ellison**

(Perm req)

*Topics will vary each semester. The course will provide a seminar experience in material or methodologies not otherwise available to the major.*

Restriction: Junior standing. For ENGL majors o nly. Repeatable to 9 credits if content differs. Course intended primarily for students in English Honors Program. English majors with strong academic records may also apply. Permission from the Director of Honors required.

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|---|---|---|
| 0101 | Brian Richardson<br>MW 2:00pm - 3:15pm | Seats (Total: 20)<br>TWS 1321 |

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**ENGL429** **Independent Research in English**

(Perm req)

*An advanced independent research project for qualified students, supervised by an English faculty member, on a topic not ordinarily covered in available courses.*

Prerequisite: ENGL301 and two English courses, excluding Fundamental Studies requirement.

**Contact department for information to register for this course.**

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**ENGL430** **Literature of the Americas from First Contact to Revolution**

*Prerequisite: Two English courses beyond Fundamental Studies; or permission of ARHU-English Department.*

*Examines the literature of the cultural encounters, colonialisms, empires, and independence movements in the early Americas from 1492 through the eighteenth century. Writers typically include Christopher Columbus, John Smith, Anne Bradstreet, Jonathan Edwards, William Byrd, Olaudah Equiano, Phillis Wheatley, and Benjamin Franklin.*

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| 0101 | Ralph Bauer | Seats (Total: 20) |
| | MW 3:30pm - 4:45pm | TWS 1105 |

**ENGL438B** **Selected Topics in Media Studies; Black Digitalities**

*Advanced study of a topic pertinent to how the material production, technologies, and cultural practices of diverse types of media shape meaning.*

Cross-listed with AASP478E. Credit only granted for ENGL438B or AASP478E. In investigating a broad range of materials: essays, literature, film, VR, and video games, this class in digital study and practice explores the long history of Black Atlantic engagement with digital techniques and modalities. Over the course of the semester students will engage a variety of hands on experiences, creating or conceptualizing digital objects as entry points into learning how to read digital experiences from both cultural and computational perspectives. Writing assignments will especially focus on how play and interactivity impact narrative and representation. By combining close reading practice with digital treatments of canonical African American texts, this class will help students historicize important cross-fertilizations between Black expressive traditions and a range of contemporary media.

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|---|---|---|
| 0101 | Marisa Parham | Seats (Total: 20) |
| | M 3:30pm - 6:00pm | TWS 1320 |

**ENGL439D** **Spotlight on Major Writers; Dickinson, Erotics, Poetics, Biopics: Some (Queer) Ways We Read Poetry**

*An intensive study of a single writer, or a handful of writers, to understand the shifts in the writer's craft and cultural influence, both past and present.*

Prerequisite: Two English courses in literature; or permission of ARHU-English department. Cross-listing with LGBT448Y and WGSS498Y. Credit only granted for ENGL439D, LGBT448Y, WGSS498Y, or WMST498Y.

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| 0101 | Martha Nell Smith | Seats (Total: 20) |
| | TuTh 12:30pm - 1:45pm | TWS 1313 |

**ENGL439M** **Spotlight on Major Writers; Major American Writers After 1865**

*An intensive study of a single writer, or a handful of writers, to understand the shifts in the writer's craft and cultural influence, both past and present.*

**Contact department for information to register for this course.**

**ENGL444** **Feminist Critical Theory**

*Prerequisite: WMST200, WGSS200, WMST250, WGSS250, or ENGL250. Cross-listed with: WGSS444. Credit only granted for: ENGL444, WMST444 or WGSS444. Formerly: WMST444.*

*Issues in contemporary feminist thought that have particular relevance to textual studies, such as theories of language, literature, culture, interpretation, and identity.*

**Contact department for information to register for this course.**

**ENGL457 The Modern Novel**

*Prerequisite: Two English courses beyond Fundamental Studies; or permission of ARHU-English Department.*

*Explore the remarkable development and transformation of the novel in the twentieth century. Learn about the development of the novel through realism, modernism, and postmodernism, from the transformations made by major modernists like Joseph Conrad, James Joyce, Virginia Woolf, Jean Toomer, William Faulkner, and Katherine Ann Porter to playful, unusual and fascinating postmodern and contemporary fiction by Ralph Ellison, Kathy Acker, Salman Rushdie, Toni Morrison, and others.*

**Contact department for information to register for this course.**

**ENGL458A Literature by Women After 1800; Gender, Race and Empire in Women's Writing 1780-1900**

*Selected writings by women after 1800.*

**Contact department for information to register for this course.**

**ENGL459C Selected Topics in LGBTQ+ Literatures and Media; Life Writings in Different Media**

*Advanced study of a topic pertinent to literary and cultural expressions of LGBTQ+ identities, positionalities, and analytics through an exploration of literature, art, and/or media.*

Cross-listed with LGBT459D. Credit only granted for ENGL459C or LGBT459D.

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|---|---|---|
| 0101 | Martha Nell Smith | Seats (Total: 15) |
| | TuTh 3:30pm - 4:45pm | TWS 1313 |

**ENGL462 Folksong and Ballad**

*Explore America's diverse folksong heritage and its impact on world culture. Learn about such regional, ethnic, and popular music forms as ballad, country, bluegrass, blues, rock, gospel, soul, rap, and zydeco within their specific cultural contexts and as commercial products commodified by a voracious music industry. While we will consider the European and African roots of many of these musical traditions, our focus will be on American contributions in the twentieth century. Reading and listening will focus on genres such as blues or bluegrass; particular artists such as Bessie Smith, Robert Johnson, Bill Monroe, and Louis Jordan; and major figures in the recording industry or fieldworker collectors such as Alan Lomax.*

Prerequisite: Two English courses in literature; or permission of ARHU-English department

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|---|---|---|
| 0101 | Barry Pearson | Seats (Total: 20) |
| | TuTh 3:30pm - 4:45pm | TWS 1105 |

**ENGL466 Arthurian Legend**

*Prerequisite: Two English courses beyond Fundamental Studies; or permission of ARHU-English Department.*

*Development of Arthurian legend in English and continental literature from Middle Ages to twentieth century. All readings in modern English.*

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| 0101 | Kellie Robertson | Seats (Total: 20) |
| | MW 3:30pm - 4:45pm | TWS 1321 |

**ENGL468A** **Selected Topics in Film Studies; The Scene of Writing**

*Advanced studies in various periods and genres of film.*

**Contact department for information to register for this course.**

**ENGL469O** **The Craft of Literature: Creative Form and Theory; Ecopoetry during the Climate Crisis**

(Perm req)

*Examines various forms of poetry and/or fiction, emphasizing the practice of making literary art and the aesthetic and theoretical approaches that define it. Students will practice the elements of literary craft, producing and experimenting with a wide range of forms and conventions in poetry and/or fiction. They will also produce critical work that articulates and contextualizes theoretical approaches to the making of literary art.*

Prerequisite: Two English courses in literature or creative writing; and have completed a 200-level creative writing workshop in ENGL or permission of ARHU-English Department. Repeatable to 9 credits if content differs.

| | | |
|---|---|---|
| 0101 | Lindsay Bernal | Seats (Total: 20) |
| | Th 6:30pm - 9:00pm | TWS 3132 |

**ENGL475** **Postmodern Literature**

*Prerequisite: Two English courses beyond Fundamental Studies; or permission of ARHU-English Department.*

*Explore the origins and ongoing development of postmodern literature. Learn about the "postmodern condition," such as the collapse of identity, the erasure of cultural and aesthetic boundaries, and the dissolution of life into textuality. Explore art that has come in the wake of postmodernism and has attempted to move beyond it. Readings might include novels and other genres in varied media by Samuel Beckett, Art Spiegelman, Julian Barnes, Colson Whitehead, Ruth Ozeki, Zadie Smith, and others.*

**Contact department for information to register for this course.**

**ENGL479J** **Selected Topics in Literature after 1800; Flash Fictions**

*Advanced study of key topics in literary works from later historical periods.*

Prerequisite: Two English courses in literature or permission of ARHU-English department. Repeatable to 9 credits if content differs.

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|---|---|---|
| 0101 | Ingrid Satelmajer | Seats (Total: 15) |
| | MW 2:00pm - 3:15pm | TWS 1313 |

**ENGL491** **Digital Rhetoric**

*Prerequisite: Students must have satisfied the Fundamental Studies Academic Writing requirement. Credit only granted for: ENGL489J, or ENGL491. Formerly: ENGL489J.*

*Examines the social significance of the ways digital texts are composed and circulated. Explores why it matters how the web is written and who does the writing, understanding the Internet as rhetorical from its content and communities to the code, protocols, and policies that control digital distribution. Includes active experimentation with digital tools so students can expand their theoretical understanding through critical making.*

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|---|---|---|
| 0101 | Angela Glotfelter | Seats (Total: 20) |
| | MW 5:00pm - 6:15pm | TWS 1105 |

**ENGL493** **Writing Genres as Social Action**

*Recommended: Satisfactory completion of the professional writing requirement (FSPW). Restriction: Must have earned a minimum of 60 credits.*

*A rhetorical genre studies approach to understanding the work that texts do in the world. Examines issues of identity, power, and medium as they relate to writing in various contexts. Students analyze the texts, context(s), and social significance of a public, professional, digital, and/or advanced academic genre and produce writing that meets, modifies, and subverts expectations.*

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|---|---|---|
| 0101 | Karen Nelson | Seats (Total: 20) |
| | MW 2:00pm - 3:15pm | TWS 1320 |

**ENGL494** **Editing and Document Design**

*Prerequisite: One course in Fundamental Studies Professional Writing; or permission of ARHU-English Department.*

*Principles of general editing for clarity, precision and correctness. Applications of the conventions of grammar, spelling, punctuation and usage, and organization for logic and accuracy. Working knowledge of the professional vocabulary of editing applied throughout the course.*

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|---|---|---|
| 0101 | Blake Wilder | Seats (Total: 20) |
| | TuTh 11:00am - 12:15pm | TWS 3252 |

**ENGL495** **Independent Study in Honors**

(Perm req)

*Prerequisite: ENGL373 and ENGL370. Restriction: Must be in English Language and Literature program; and candidacy for honors in English.*

*Completion and presentation of the senior honors project.*

**Contact department for information to register for this course.**

**ENGL497** **English at Work**

*Prerequisite: ENGL301; and an ENGL course at the 300-level or higher. Restriction: Must have earned a minimum of 60 credits.*

*Examines how English majors put their academic knowledge and skills to work in professional workplaces after graduation. Students learn strategies to research careers, and they shadow a person in a career of interest for a day. Students learn to compose different professional genres to write and speak about and for professional development and advancement, including inquiry letters, technical descriptions, professional portfolios, and elevator pitches. Students will critically examine the learning they have done in their undergraduate coursework and compose a vision for bringing that learning to life in their future work.*

Restriction: Must be in English Language and Literature program; or must be in Secondary Educ: English Language Arts program.

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|---|---|---|
| 0101 | Rebecca Holden<br>TuTh 2:00pm - 3:15pm | Seats (Total: 20)<br>TWS 0232 |

**ENGL498** **Advanced Fiction Workshop**

(Perm req)

*An advanced class in the making of fiction. Intensive discussion of students' own fiction. Readings include both fiction and essays about fiction by practicing writers. Writing short critical papers, responding to works of fiction, and to colleagues' fiction, in-class writing exercises, intensive reading, and thinking about literature, in equal parts, and attendance at readings.*

Prerequisite: ENGL352 or ENGL396; or permission of department.

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|---|---|---|
| 0101 | Nicole Cuffy<br>W 3:30pm - 6:00pm | Seats (Total: 15)<br>TWS 3250 |
| 0201 | Emily Mitchell<br>Th 3:30pm - 6:00pm | Seats (Total: 15)<br>TWS 3136 |
| 0301 | Gabrielle Fuentes<br>Tu 3:30pm - 6:00pm | Seats (Total: 15)<br>TWS 3250 |

**ENGL499** **Advanced Poetry Workshop**

(Perm req)

*An advanced class in the making of poetry. Intensive discussion of students' own poems. Readings include both poetry and essays about poetry by practicing poets. Writing short critical prose pieces, responding critically to colleagues' poems, in-class and outside writing exercises, and attendance at poetry readings.*

Prerequisite: ENGL397 or ENGL353; or permission of department.

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|---|---|---|
| 0101 | Joshua Weiner<br>Tu 3:30pm - 6:00pm | Seats (Total: 15)<br>TWS 3134 |

**ENGL601** **Introduction to Graduate Studies**

*An introduction to different elements of graduate work and an exploration of what it means to get a doctoral degree in English. Considers different career trajectories, in and outside of academia, as well as the future of higher education.*

For majors only.

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|---|---|---|
| 0101 | Tita Chico<br>Tu 3:30pm - 6:00pm | Seats (Total: 14)<br>TWS 3136 |

**ENGL679** **Professional and Career Mentoring for Master's Students**

(Perm req)

*Augments advising currently provided by the English Department Graduate Studies Office. Individual professional and career mentoring for MA and MFA students from a faculty member.*

**Contact department for information to register for this course.**

**ENGL688** **Poetry Workshop**

(Perm req)

*Poetry workshop.*

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|---|---|---|
| 0201 | Joshua Weiner<br>W 3:30pm - 6:00pm | Seats (Total: 12)<br>TWS 3134 |

**ENGL689** **Fiction Workshop**

(Perm req)

*Fiction workshop.*

| | | |
|---|---|---|
| 0101 | Gabrielle Fuentes<br>W 3:30pm - 6:00pm | Seats (Total: 12)<br>TWS 3136 |

**ENGL699** **Independent Study**

(Perm req)

**Contact department for information to register for this course.**

**ENGL709A** **Seminar in Transnational Literatures and Cultures; At the Limit: Violence, Resistance and the Ethics of Representation**

(Perm req)

*Examines cultural and political ideas as they circulate across nations in literary and/or other forms (film, song, visual culture, digital works, etc.) in both historical and modern-day contexts.*

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|---|---|---|
| 0101 | Sangeeta Ray<br>M 3:30pm - 6:00pm | Seats (Total: 11)<br>TWS 3136 |

**ENGL738C** **Seminar in Nineteenth-Century Literature; Indigenous and Imperial Archives**

(Perm req)

| | | |
|---|---|---|
| 0101 | Jason Rudy<br>Th 6:30pm - 9:00pm | Seats (Total: 11)<br>TWS 3252 |

**ENGL749A** **Studies in Twentieth-Century Literature; Alimentary Tracts: Stories, Being, and the Ways of Food**

(Perm req)

| | | |
|---|---|---|
| 0101 | Christina Walter<br>Tu 6:30pm - 9:00pm | Seats (Total: 11)<br>TWS 3252 |

**ENGL759E** **Seminar in Literature and the Other Arts; Methods and Issues in Cinema and Media Studies**

(Perm req)

Cross-listed with CMLT679B and CINE469M. Credit granted for ENGL759E, CMLT679B or CINE469M. Offers an introduction to ways of reading, writing about, and teaching cinema and media. The focus of discussion will range from methods of close analysis and basic concepts of film form, technique, and style; through industrial/critical categories of genre and authorship (studios,stars, directors); through aspects of the cinema as a social institution, psycho-sexual apparatus and cultural practice; to the relationship between filmic texts and the historical horizon of production and reception; to the historical and contemporary questions arising from a comparative media approach.

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|---|---|---|
| 0101 | Oliver Gaycken<br>W 3:30pm - 6:00pm | Seats (Total: 15)<br>TWS 3252 |

**ENGL759F** **Seminar in Literature and the Other Arts; Computers Killed the Creative Writing Star**

(Perm req)

| | | |
|---|---|---|
| 0101 | Lillian-Yvonne Bertram<br>Th 3:30pm - 6:00pm | Seats (Total: 11)<br>TWS 3250 |

**ENGL776** **Seminar in Modern Rhetorical Theory**

(Perm req)

*Restriction: Permission of ARHU-English department.  Additional information: May fulfill seminar requirements for MA in English with Concentration in Rhetoric and Composition.*

*Seminar in Modern Rhetorical Theory. Theories and trends in twentieth and twenty-first century rhetorical theory*

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|---|---|---|
| 0101 | Scott Wible | Seats (Total: 11) |
| | M 3:30pm - 6:00pm | ASY 3221 |

**ENGL798B** **Critical Theory Colloquium**

(Perm req)

*An intensive advanced exploration of current problems and issues in critical theory.*

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|---|---|---|
| 0101 | Christina Walter | Seats (Total: 20) |
| | Contact instructor or department for details. | |

**ENGL799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**ENGL809** **Academic Publishing Workshop**

(Perm req)

*A workshop for the preparation of articles of other critical writing for  publication in academic journals or other professional venues.*

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|---|---|---|
| 0101 | Jason Rudy | Seats (Total: 12) |
| | Contact instructor or department for details. | |

**ENGL878** **Pedagogical Mentoring for Doctoral Students**

(Perm req)

*Pedagogical mentoring by roster faculty members for graduate students teaching 200-level literature courses.*

**Contact department for information to register for this course.**

**ENGL879** **Professional Mentoring for Doctoral Students**

(Perm req)

*Augments advising currently provided by the English Department Graduate Studies Office. Individual professional and career mentoring for PhD students from a faculty member.*

**Contact department for information to register for this course.**

**ENGL888** **Practicum in English Studies**

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|---|---|---|
| 1601 | Gerard Passannante<br>Contact instructor or department for details. | Seats (Total: 20) |

**ENGL898** **Pre-Candidacy Research; PRE-CANDIDACY RESEARCH**

(Perm req)

*Pedagogical mentoring by roster faculty members for graduate students teaching 200-level literature courses.*

**Contact department for information to register for this course.**

**ENGL899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# ENMA Engineering, Materials Fall 2024

**ENMA180** **Materials Science and Engineering: The Field and the Future**

*Restriction: Must be in a major in ENGR-A. James Clark School of Engineering.*

*Overview of the profession and the components of the Materials Science and Engineering program. Students will become familiar with the departmental faculty, areas of specialization within MSE, professional society student chapter, research opportunities and other resources available to students.*

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|---|---|---|
| 0101 | N Parker<br>Th 2:00pm - 3:00pm | Seats (Total: 25)<br>CHE 2118 |

**ENMA300** **Introduction to Materials Engineering**

(Perm req)

*Prerequisite: ENES100; and permission of ENGR-Materials Science & Engineering department. Corequisite: MATH241. Recommended: PHYS261 and PHYS260. Restriction: Permission of ENGR-Mechanical Engineering department. Cross-listed with ENME382. Credit only granted for: ENMA300 or ENME382.*

*Structure of materials, chemical composition, phase transformations, corrosion and mechanical properties of metals, ceramics, polymers and related materials. Materials selection in engineering applications.*

| | | |
|---|---|---|
| 0101 | Carlos Rios Ocampo<br>TuTh 3:30pm - 4:45pm | Seats (Total: 30)<br>ESJ 2204 |
| 0201 | Luz Martinez-Miranda<br>TuTh 9:30am - 10:45am<br>*For students majoring in Materials Science and Engineering.* | Seats (Total: 38)<br>CHE 2136 |

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|---|---|---|---|
| 0301 | Francis McCluskey | Seats (Total: 30) | |
| | MWF 10:00am - 10:50am | TMH 0301 | |

**ENMA312** **Experimental Methods in Materials Science**

*Prerequisite: ENMA300. Corequisite: ENMA460. Restriction: Junior standing or higher.*

*Introduction to experimental methods in materials characterization; synthesis of colloidal nanoparticles; X-ray diffraction and light scattering; optical microscopy; thermal conductivity and expansion; electrical measurements; heat capacity; computational materials design.*

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|---|---|---|---|
| 0101 | Audaldo Ponce | Seats (Total: 6) | |
| | Contact instructor or department for details. | | |
| | Contact instructor or department for details. | | |
| 0102 | Audaldo Ponce | Seats (Total: 10) | |
| | Tu 2:00pm - 3:15pm | KEB 1135 | |
| | MW 9:00am - 11:50am | KEB 1135 | Lab |

**ENMA362** **Mechanical Properties**

(Perm req)

*Prerequisite: ENMA300. Restriction: Junior standing or higher; and permission of ENGR-Materials Science & Engineering department.*

*Overview of Mechanical Behavior, Elastic Behavior, Dislocations, Plastic Deformation, Strengthening of Crystalline Materials, Composite Materials, High Temperature Deformation of Crystalline Materials, Permanent Deformation of Noncrystalline Materials, Tensile Fracture at Low Temperatures, Engineering Aspects of Fracture, High Temperature Fracture, Fatigue, and Experimental determination of Mechanical Properties including Hardness of Metals and Strength of Metals, Polymers, Ceramics and Composites.*

For ENMA majors only.

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|---|---|---|---|
| 0102 | Gianna Valentino | Seats (Total: 22) | |
| | TuTh 3:30pm - 4:45pm | EGR 1102 | |
| | TuTh 9:00am - 11:00am | KEB 1135 | Lab |

**ENMA400** **Introduction to Atomistic Modeling in Materials**

*Prerequisite: ENMA300, MATH206, and ENMA460. Recommended: Basic knowledge in quantum mechanics (preferred but not required); basic knowledge in statistical mechanics (preferred but not required). Also offered as: ENMA600. Credit only granted for: ENMA489A, ENMA400, ENMA698A, or ENMA600. Formerly: ENMA489A.*

*This is an introductory course designed to study atomistic modeling and simulation techniques used in materials research. This course covers the theories, methods, and applications of atomistic-scale modeling techniques in simulating, understanding, and predicting the properties of materials. Specific topics include: molecular statics using empirical force fields; quantum mechanical methods including density functional theory; molecular dynamics simulations; and Monte Carlo and kinetic Monte Carlo modeling.*

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|---|---|---|---|
| 0101 | Yifei Mo | Seats (Total: 30) | |
| | TuTh 9:30am - 10:45am | EGR 2154 | |

**ENMA416** **Lithium Battery Fundamentals, Safety, and Assembly**

(Perm req)

*Restriction: Permission of the department.*

*Focus on the real-world considerations that allow for safe battery implementation into actual products while providing the opportunity to assemble functional battery cells. Fundamental electrochemistry, kinetics, thermodynamics, and material properties and their impact on cell and battery pack design, performance, and safety for lithium chemistry batteries will be explored. The lab will include hands-on experimental and design projects centered on cell design, performance, and the causes and effects of thermal runaway in lithium batteries. Site visits to battery research centers and manufacturers are planned.*

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|---|---|---|---|
| 0101 | Daphne Fuentevilla, Julie Simmons, Gibson Scisco | Seats (Total: 13) | |
| | TuTh 5:00pm - 5:50pm | CHE 2145 | |
| | F 10:00am - 12:00pm | CHE 1140 | Lab |

**ENMA437** **Machine Learning for Materials Science**

(Perm req)

*Prerequisite: MATH206, ENMA300, and MATH461. Restriction: Permission of ENGR-Materials Science & Engineering department. Jointly offered with: ENMA637. Credit only granted for: ENMA489L, ENMA437 or ENMA637. Formerly: ENMA489L.*

*Familiarizes students with basic as well as state of the art knowledge of machine learning and its applications to materials science and engineering. Covers the range of machine learning topics with applications including feature identification and extraction, determining predictive descriptors, uncertainty analysis, and identifying the most informative experiment to perform next. One focus of the class is to build the skills necessary for developing an autonomous materials research system, where machine learning controls experiment design, execution, and analysis in a closed-loop.*

| | | | |
|---|---|---|---|
| 0101 | Aaron Kusne, Ichiro Takeuchi | Seats (Total: 10) | |
| | M 10:00am - 12:50pm | JMP 2116 | |
| | Class time/details on ELMs | ONLINE | |

**ENMA441** **Characterization of Materials**

(Perm req)

*Prerequisite: ENMA300, ENMA165 or MATH206. Restriction: Permission of ENGR-Materials Science & Engineering department; and senior standing. Credit only granted for: ENMA489T or ENMA441. Formerly: ENMA489T.*

*Techniques to characterize the properties of materials whose characteristic dimensions range from nanometers to macroscopic. These include conventional crystalline and noncrystalline materials, with a special attention to materials of current technological interest. The course will include recent results from the scientific literature.*

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|---|---|---|
| 0101 | John Cumings<br>TuTh 12:30pm - 1:45pm | Seats (Total: 35)<br>CHE 2118 |

**ENMA460** **Introduction to Solid State Physics**

*Prerequisite: PHYS271, PHYS270, and MATH241. Restriction: Junior standing or higher; and must be in the Engineering: Materials Science program or Physics program. Cross-listed with: PHYS431. Credit only granted for: ENMA460 or PHYS431. Additional information: Materials Engineering students take ENMA460 and Physics students take PHYS431.*

*Classes of materials; introduction to basic ideal and real materials' behavior including mechanical, electrical, thermal, magnetic and optical responses of materials; importance of microstructure in behavior. One application of each property will be discussed in detail.*

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|---|---|---|
| 0101 | You Zhou<br>MW 5:00pm - 6:15pm | Seats (Total: 45)<br>BPS 0283 |

**ENMA464** **Environmental Effects on Engineering Materials**

*Prerequisite: ENMA300. Or permission of ENGR-Materials Science & Engineering department; and permission of instructor.*

*Introduction to the phenomena associated with the resistance of materials to damage under severe environmental conditions. Oxidation, corrosion, stress corrosion, corrosion fatigue and radiation damage are examined from the point of view of mechanism and influence on the properties of materials. Methods of corrosion protection and criteria for selection of materials for use in radiation environments.*

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| 0101 | Sreeramamurthy Ankem<br>MWF 2:00pm - 2:50pm | Seats (Total: 25)<br>AJC 2134 |

**ENMA466** **Advanced Materials Fabrication Laboratory**

*Prerequisite: ENMA465; and permission of ENGR-Materials Science & Engineering department.*

*This course allows students an opportunity to study advanced materials systems in depth through a combination of lectures and hands-on laboratory experiments. Students will be trained in materials processing and characterization techniques. Each student will fabricate materials and devices in our state-of-the-art nanofabrication clean room facility (Fablab), as well as evaluate them using a variety of characterization techniques.*

| | | | |
|---|---|---|---|
| 0101 | Gary Rubloff | Seats (Total: 10) | |
| | W 10:00am - 11:30am | EGR 3111 | Lab |

**ENMA471** **Kinetics, Diffusion and Phase Transformations**

(Perm req)

*Prerequisite: Must have completed or be concurrently enrolled in ENMA461. Restriction: Junior standing or higher; or permission of ENGR-Materials Science & Engineering department.*

*Fundamentals of diffusion, the kinetics of reactions including nucleation and growth and phase transformations in materials.*

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|---|---|---|
| 0101 | Raymond Phaneuf | Seats (Total: 45) |
| | TuTh 11:00am - 12:15pm | CHE 2118 |

**ENMA486** **Seminar in Materials Science and Engineering**

*Restriction: Must be in Engineering: Materials Science program.*

*Current research in materials science and engineering and related fields. The lectures are presented by scientists and engineers from academia, national laboratory, US government, etc., in the format of seminars.*

| | | |
|---|---|---|
| 0101 | Timothy Koeth | Seats (Total: 4) |
| | W 3:30pm - 5:00pm | CHE 2108 |

**ENMA487** **Capstone Preparation**

(Perm req)

*Restriction: Must be in Engineering: Materials Science program; and senior standing; and permission of ENGR-Materials Science & Engineering department.*

*In preparation for the senior level design course, students will do background research and develop white papers from which teams will form around short listed design projects. The projects should focus on a society, industry, military or technological based problem in Materials Science and Engineering leading to a design and strategy to address the problem in the following course, ENMA 490. The course will include written and oral presentations of the white papers and team proposals.*

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|---|---|---|
| 0101 | Raymond Phaneuf | Seats (Total: 40) |
| | W 1:00pm - 1:50pm | PHY 0405 |

**ENMA489M** **Selected Topics in Engineering Materials; Advanced Manufacturing Laboratory (AML)**

(Perm req)

*Selected topics of current importance in materials science and engineering.*

Credit only granted for ENEE419M, ENMA489M, or BIOE489J. An interdisciplinary course designed to provide students with an overview of key processes, technology, and manufacturing techniques involved in fabricating advanced devices and systems. Students will be exposed to state-of-the-art fabrication technologies including soft lithography, 3D printing, hybrid manufacturing, material functionalization, and systems integration. In addition to developing a theoretical understanding in the classroom, students will gain hands-on fabrication and characterization experience of systems that can interface with complex environments.

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|---|---|---|---|
| 0101 | Kevin Daniels | Seats (Total: 4) | |
| | MW 9:00am - 9:50am | Location: TBA | |
| | F 9:00am - 11:50am | Location: TBA | Lab |

**ENMA495** **Polymeric Engineering Materials I**

*Prerequisite: ENMA300. Restriction: Permission of ENGR-Materials Science & Engineering department.*

*Study of polymeric engineering materials and the relationship to structural type. Elasticity, viscoelasticity, anelasticity and plasticity of single and multiphase materials. Emphasis is on polymetric materials.*

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| 0101 | Mohamad Al-Sheikhly | Seats (Total: 25) |
| | MW 3:30pm - 4:45pm | CHE 2140 |

**ENMA499** **Senior Laboratory Project**

(Perm req)

*Students work with a faculty member on an individual laboratory project in one or more of the areas of engineering materials. Students will design and carry out experiments, interpret data and prepare a comprehensive laboratory report.*

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|---|---|---|
| 0101 | Timothy Koeth | Seats (Total: 6) |
| | Contact instructor or department for details. | |

**ENMA600** **Advanced Atomistic Modeling in Materials**

*Prerequisite: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA600, ENMA 698A, ENMA400 or ENMA489A. Formerly: ENMA698A.*

*This is an advanced course designed to study atomistic modeling and simulation techniques used in materials research. This course covers the theories, methods, and applications of atomistic-scale modeling techniques in simulating, understanding, and predicting the properties of materials. Specific topics include: molecular statics using empirical force fields; quantum mechanical methods including density functional theory; molecular dynamics simulations; and Monte Carlo and kinetic Monte Carlo modeling.*

| | | | |
|---|---|---|---|
| 0101 | Yifei Mo | Seats (Total: 5) | |
| | TuTh 9:30am - 10:45am | EGR 2154 | |

**ENMA616** **Lithium Battery Fundamentals, Safety, and Assembly**

*Prerequisite: . Restriction: Permission of the department. Jointly offered with: ENMA416. Credit only granted for: ENMA416 or ENMA616.*

*Focus on the real-world considerations that allow for safe battery implementation into actual products while providing the opportunity to assemble functional battery cells. Fundamental electrochemistry, kinetics, thermodynamics, and material properties and their impact on cell and battery pack design, performance, and safety for lithium chemistry batteries will be explored. The lab will include hands-on experimental and design projects centered on cell design, performance, and the causes and effects of thermal runaway in lithium batteries. Site visits to battery research centers and manufacturers are planned.*

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|---|---|---|---|
| 0101 | Julie Simmons, Daphne Fuentevilla, Gibson Scisco | Seats (Total: 7) | |
| | TuTh 5:00pm - 5:50pm | CHE 2145 | |
| | F 10:00am - 12:00pm | CHE 1140 | Lab |

**ENMA626** **Fundamentals of Failure Mechanisms**

*Restriction: Permission of ENGR-Mechanical Engineering. Cross-listed with: ENRE600. Credit only granted for: ENMA626, ENMA698M, ENMA698R, or ENRE600.*

*Advanced failure mechanisms in reliability engineering wiil be taught from a basic materials and defects point of view. The methods of predicting the physics of failure of devices, materials, components and systems are reviewed. The main emphasis will be given to basic degradation mechanisms through understanding the physics, chemistry, and mechanics of such mechanisms. Mechanical failures are introduced through understanding fatigue, creep and yielding in materials, devices and components. The principles of cumulative damage and mechanical yielding theory are taught. The concepts of reliability growth, accelerated life testing, environmental testing are introduced. Physical, chemical and thermal related failures are introduced through a basic understanding of degradation mechanisms such as diffusion, electromigration, defects and defect migration. The failure mechanisms in basic material types will be taught. Failure mechanisms observed in real electronic devices and electronic packaging will also be presented. Problems related to manufacturing, and microelectronics will be analyzed. Mechanical failures are emphasized from the point of view of complex fatigue theory.*

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|---|---|---|
| 0101 | Aristos Christou<br>M 1:00pm - 3:40pm | Seats (Total: 29)<br>JMP 2217 |
| ER01 | Aristos Christou<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |
| RE01 | Aristos Christou<br>Class time/details on ELMs | Seats (Total: 4)<br>ONLINE |

**ENMA633** **Advanced Characterization of Soft Matter Materials**

(Perm req)

*Restriction: Permission of ENGR-Materials Science & Engineering department. Cross-listed with: CHPH633. Credit only granted for: ENMA633 or CHPH633.*

*This course is focused on both the theories and experimental works of studying structure and dynamics of soft matter materials using scattering techniques (light, x-ray and neutron scattering). These scattering techniques can probe the structure from a few Angstrom to micrometer and the dynamics from picosecond to second, are thus widely used to reveal the structure-performance relationship of different materials. The course discusses the physics principles of these techniques and explains the details of general theories and commonly used models in characterizing soft matter materials such as polymer, protein, colloidal, thin film, and gel systems.*

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|---|---|---|
| 0101 | Yun Liu<br>WF 1:25pm - 2:40pm | Seats (Total: 15)<br>ONLINE |

**ENMA637** **Machine Learning for Materials Science**

(Perm req)

*Prerequisite: MATH461. Recommended: Python knowledge. Restriction: Permission of ENGR-Materials Science & Engineering department. Jointly offered with: ENMA437. Credit only granted for: ENMA437, ENMA489L, or ENMA637.*

*Familiarizes students with basic as well as state of the art knowledge of machine learning and its applications to materials science and engineering. Covers the range of machine learning topics with applications including feature identification and extraction, determining predictive descriptors, uncertainty analysis, and identifying the most informative experiment to perform next. One focus of the class is to build the skills necessary for developing an autonomous materials research system, where machine learning controls experiment design, execution, and analysis in a closed-loop.*

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|---|---|---|
| 0101 | Ichiro Takeuchi, Aaron Kusne<br>M 10:00am - 12:50pm<br>Class time/details on ELMs | Seats (Total: 10)<br>JMP 2116<br>ONLINE |

**ENMA641** **Nanotechnology Characterization**

(Perm req)

*Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA698T or ENMA641. Formerly: ENMA698T.*

*Techniques to characterize the properties of materials whose characteristic dimensions are a few to a few hundred nanometers, including conventional nanocrystalline materials, but concentrating on novel nanomaterials: carbon nanotubes, quantum dots, quantum wires, and quantum wells are covered. The emphasis is on recent results from the scientific literature concerning those properties that make nanostructures interesting: quantum effects, novel transport phenomena, enhanced mechanical properties associated with localization and with small crystallite size.*

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|---|---|---|
| 0101 | John Cumings<br>TuTh 12:30pm - 1:45pm | Seats (Total: 3)<br>CHE 2118 |

**ENMA650** **Nanometer Structure of Materials**

(Perm req)

*Prerequisite: ENMA460; or students who have taken courses with comparable content may contact the department. And permission of ENGR-Materials Science & Engineering department.*

*The basic concepts required for understanding nanostructured materials and their behavior will be covered. Topics covered include the structural aspects of crystalline and amorphous solids and relationships to bonding types, point and space groups. Summary of diffraction theory and practice. The reciprocal lattice. Relationships of the microscopically measured properties to crystal symmetry. Structural aspects of defects in crystalline solids.*

| | | |
|---|---|---|
| 0101 | Shenqiang Ren<br>MW 5:00pm - 6:15pm | Seats (Total: 26)<br>CHE 2136 |

**ENMA660** **Thermodynamics in Materials Science**

(Perm req)

*Corequisite: ENMA650. Restriction: Permission of ENGR-Materials Science & Engineering department.*

*Thermodynamics of engineering solids. Thermal, diffusional and mechanical interactions in macroscopic systems. Systems in thermal contact, systems in thermal and diffusive contact, systems in thermal and mechanical contact.*

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|---|---|---|
| 0101 | Oded Rabin<br>TuTh 3:30pm - 4:45pm | Seats (Total: 25)<br>CHE 2136 |

**ENMA664** **Advanced Environmental Effects on Engineering Materials**

*Credit only granted for: ENMA664 or ENMA698K. Formerly: ENMA698K.*

*Introduction to the phenomena associated with the resistance of materials to damage under severe environmental conditions. Oxidation, corrosion, stress corrosion, corrosion fatigue and radiation damage are examined from the point of view of mechanism and influence on the properties of materials. Methods of corrosion protection and criteria for selection of materials for use in radiation related environments.*

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|---|---|---|---|
| 0101 | Sreeramamurthy Ankem | Seats (Total: 5) | |
| | MWF 2:00pm - 2:50pm | AJC 2134 | |

**ENMA680** **Determination of Structure, Chemical Composition and Defects in Materials**

(Perm req)

*Prerequisite: ENMA650. Restriction: Permission of ENGR-Materials Science & Engineering department.*

*Basic principles of electron microscopy theory, electron diffraction, and imaging theory. The electron beam sample interaction that gives rise to different signals is related to the structural and compositional information that is obtained from a sample using a TEM. The most common TEM techniques for structural characterization of a sample, namely, electron diffraction, bright/dark field imaging, and high resolution lattice imaging are discussed. Compositional information obtained from x-ray fluorescence and electron energy loss as well as the resolution of these techniques is also covered. A description of techniques used to study magnetic materials is also presented.*

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|---|---|---|---|
| 0101 | Jiancun Rao | Seats (Total: 21) | |
| | TuTh 3:30pm - 4:45pm | PHY 4222 | |

**ENMA683** **Structural Determination Laboratory**

(Perm req)

*Restriction: Permission of ENGR-Materials Science & Engineering department. Credit only granted for: ENMA698L or ENMA683. Formerly: ENMA698L.*

*The operation of an electron microscope is covered. TEM techniques that are used to characterize the structure, defects and composition of a sample are presented and used to study a variety of materials. These techniques are: electron diffraction patterns, bright/dark field imaging, high resolution lattic imaging and energy dispersive x-ray spectroscopy. Also covers different sample preparation techniques for TEM. The goal is that the students become independent users of the TEM.*

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|---|---|---|---|
| 0101 | Jiancun Rao | Seats (Total: 5) | |
| | Th 9:30am - 12:30pm | KEB 1237 | Lab |
| 0201 | Jiancun Rao | Seats (Total: 5) | |
| | F 2:30pm - 5:30pm | KEB 1237 | Lab |

**ENMA688** **Seminar in Materials Science and Engineering**

*Current research in materials science and engineering and related fields.*

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|---|---|---|
| 0101 | Timothy Koeth | Seats (Total: 24) |
| | W 3:30pm - 5:00pm | CHE 2108 |

**ENMA698** **Special Problems in Materials Science and Engineering**

(Perm req)

*Individual, supervised study in materials science and engineering.*

**Contact department for information to register for this course.**

**ENMA797** **Independent Study**

*This course is designed to provide students with a directed independent study course in order to prepare the scholarly paper required for the master's degree without thesis degree option.*

| | | |
|---|---|---|
| 0101 | Ichiro Takeuchi | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**ENMA799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**ENMA898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**ENMA899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

## ENME Engineering, Mechanical Fall 2024

**ENME202** **Computing Fundamentals for Engineers**

(Perm req)

*Corequisite: Must be concurrently enrolled in MATH141. Restriction: Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENAE202 or ENME202.*

*Introduction to computer programming for the solution of engineering problems. Python & MATLAB languages including flow control, functions, file handling, arrays, and data structures. Students will be introduced to computing fundamentals, principles of software engineering, object-oriented programming, and algorithms.*

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|---|---|---|---|
| 0101 | Davis McGregor, Lin Cheng | Seats (Total: 50) | |
| | MW 11:00am - 11:50am | KEY 0106 | |
| | Tu 3:00pm - 4:50pm | ONLINE | Lab |

| | | | |
|---|---|---|---|
| 0102 | Davis McGregor, Lin Cheng<br>MW 11:00am - 11:50am<br>Th 3:00pm - 4:50pm | Seats (Total: 50)<br>KEY 0106<br>ONLINE | <br><br>Lab |
| 0103 | Lin Cheng, Davis McGregor<br>MW 11:00am - 11:50am<br>W 3:00pm - 4:50pm | Seats (Total: 50)<br>KEY 0106<br>ONLINE | <br><br>Lab |
| 0104 | Davis McGregor, Lin Cheng<br>MW 11:00am - 11:50am<br>Th 5:00pm - 6:50pm | Seats (Total: 50)<br>KEY 0106<br>ONLINE | <br><br>Lab |

**ENME208** **Introduction to Automotive Engineering and Design**

*Selected concepts in automotive engineering and design at the introductory level utilizing the Terps Racing Baja SAE student project as a learning instrument. This class compliments ENME408, Automotive Design, which focuses on the Terps Racing Formula SAE car.*

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|---|---|---|---|
| 0101 | Scott Schmidt<br>Tu 6:30pm - 7:30pm<br>Th 6:30pm - 8:30pm | Seats (Total: 10)<br>JMP 1202<br>JMP 1202 | |

**ENME272** **Introduction to Computer Aided Design**

(Perm req)

*Prerequisite: Must have completed or be concurrently enrolled in MATH141. Restriction: Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENME414 or ENME272.*

*Fundamentals of CAD, using solid modeling packages (Pro/E, SolidWorks, and Autodesk Inventor). Two and three dimensional drawing. Dimensioning and specifications. Introduction of CAD based analysis tools. Students will complete a design project.*

| | | | |
|---|---|---|---|
| 0101 | Mohammad Fazelpour<br>M 8:00am - 9:50am | Seats (Total: 42)<br>KEB 2111 | |
| 0201 | David Kriesberg<br>Tu 10:00am - 11:50am | Seats (Total: 42)<br>KEB 2111 | |
| 0301 | Mohammad Fazelpour<br>W 8:00am - 9:50am | Seats (Total: 42)<br>KEB 2111 | |
| 0401 | David Kriesberg<br>Th 10:00am - 11:50am | Seats (Total: 42)<br>KEB 2111 | |

| | | | |
|---|---|---|---|
| 0501 | Mohammad Fazelpour<br>F 1:00pm - 2:50pm | Seats (Total: 42)<br>KEB 2111 | |

**ENME299Z** **Topics in Mechanical Engineering; The Legend of Zelda: A Link to Machine Design**

*Introductory topics in the field of mechanical engineering.*

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|---|---|---|---|
| 0101 | Ryan Sochol<br>W 12:00pm - 12:50pm | Seats (Total: 30)<br>AJC 1108 | |

**ENME331** **Fluid Mechanics**

(Perm req)

*Prerequisite: ENES232 and ENES221. Credit only granted for: BIOE331, ENCE305, ENFP300, or ENME331.*

*Principles of fluid mechanics. Mass, momentum and energy conservation. Hydrostatics. Control volume analysis. Internal and external flow. Boundary layers. Modern measurement techniques. Computer analysis. Laboratory experiments.*

| | | | |
|---|---|---|---|
| 0101 | Amir Riaz, Cecilia Huertas Cerdeira<br>MW 12:00pm - 12:50pm<br>Tu 1:00pm - 2:50pm | Seats (Total: 50)<br>SKN 0200<br>ATL 1113 | Lab |
| 0102 | Amir Riaz, Cecilia Huertas Cerdeira<br>MW 12:00pm - 12:50pm<br>W 1:00pm - 2:50pm | Seats (Total: 50)<br>SKN 0200<br>CCC 1111 | Lab |
| 0105 | Cecilia Huertas Cerdeira, Amir Riaz<br>MW 12:00pm - 12:50pm<br>Tu 3:00pm - 4:50pm | Seats (Total: 50)<br>SKN 0200<br>EGR 1108 | Lab |
| 0106 | Amir Riaz, Cecilia Huertas Cerdeira<br>MW 12:00pm - 12:50pm<br>W 3:00pm - 4:50pm | Seats (Total: 50)<br>SKN 0200<br>PHY 4221 | Lab |

**ENME332** **Transfer Processes**

(Perm req)

*Prerequisite: ENME331. Credit only granted for: ENME332 or ENFP312.*

*The principles of heat transfer. Conduction in solids. Convection. Radiation. Modern measurement techniques. Computer analysis.*

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|---|---|---|---|
| 0101 | Amir Riaz, Damena Agonafer<br>MW 9:00am - 9:50am<br>Tu 1:00pm - 2:50pm | Seats (Total: 44)<br>EGR 1202<br>PHY 0405 | <br><br>Lab |
| 0102 | Damena Agonafer, Amir Riaz<br>MW 9:00am - 9:50am<br>W 1:00pm - 2:50pm | Seats (Total: 45)<br>EGR 1202<br>CHE 2118 | <br><br>Lab |
| 0103 | Damena Agonafer, Amir Riaz<br>MW 9:00am - 9:50am<br>Th 1:00pm - 2:50pm | Seats (Total: 45)<br>EGR 1202<br>ATL 1113 | <br><br>Lab |
| 0104 | Amir Riaz, Damena Agonafer<br>MW 9:00am - 9:50am<br>F 1:00pm - 2:50pm<br>*03/03/2022 (2208) Suz Holding 2 seats for Southern MD students which has been approved by Lisa Kiley.* | Seats (Total: 45)<br>EGR 1202<br>ANS 0412 | <br><br>Lab |

**ENME350** **Electronics and Instrumentation I**

(Perm req)

*Prerequisite: PHYS271 and PHYS270.*

*Modern instrumentation. Basic circuit design, standard microelectronic circuits. Digital data acquisition and control. Signal conditioning. Instrumentation interfacing. Designing and testing of analog circuits. Laboratory experiments.*

| | | | |
|---|---|---|---|
| 0101 | Xinan Liu, Peter Sandborn<br>MW 8:00am - 8:50am<br>M 1:00pm - 2:50pm | Seats (Total: 48)<br>PHY 1412<br>EGR 3108 | <br><br>Lab |
| 0102 | Xinan Liu, Peter Sandborn<br>MW 8:00am - 8:50am<br>Th 1:00pm - 2:50pm | Seats (Total: 48)<br>PHY 1412<br>EGR 3108 | <br><br>Lab |
| 0103 | Xinan Liu, Peter Sandborn<br>MW 8:00am - 8:50am<br>W 3:20pm - 5:10pm | Seats (Total: 48)<br>PHY 1412<br>EGR 3108 | <br><br>Lab |
| 0104 | Xinan Liu, Peter Sandborn<br>MW 8:00am - 8:50am<br>Tu 3:20pm - 5:10pm | Seats (Total: 48)<br>PHY 1412<br>EGR 3108 | <br><br>Lab |

| | | | |
|---|---|---|---|
| 0105 | Xinan Liu, Peter Sandborn<br>MW 8:00am - 8:50am<br>M 3:20pm - 5:10pm | Seats (Total: 48)<br>PHY 1412<br>EGR 3108 | <br><br>Lab |

**ENME351** **Electronics and Instrumentation II**

(Perm req)

*Prerequisite: PHYS271, ENME350, and PHYS270.*

*Continuation of ENME 350. Modern instrumentation. Basic circuit design, standard microelectronic circuits. Digital data acquisition and control. Signal conditioning. Instrumentation interfacing. Designing and testing of analog circuits. Laboratory experiments.*

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|---|---|---|---|
| 0101 | Steven Mitchell<br>MW 10:00am - 10:50am<br>Tu 1:00pm - 2:50pm | Seats (Total: 40)<br>JMZ 0220<br>EGR 3108 | <br><br>Lab |
| 0102 | Steven Mitchell<br>MW 10:00am - 10:50am<br>W 6:00pm - 7:50pm | Seats (Total: 40)<br>JMZ 0220<br>EGR 3108 | <br><br>Lab |
| 0103 | Steven Mitchell<br>MW 10:00am - 10:50am<br>W 1:00pm - 2:50pm | Seats (Total: 40)<br>JMZ 0220<br>EGR 3108 | <br><br>Lab |
| 0104 | Steven Mitchell<br>MW 10:00am - 10:50am<br>Tu 6:00pm - 7:50pm | Seats (Total: 40)<br>JMZ 0220<br>EGR 3108 | <br><br>Lab |

**ENME361** **Vibration, Controls and Optimization I**

(Perm req)

*Prerequisite: ENES220, ENES221, and MATH246; and (MATH206 or ENME202). Restriction: Must be in Engineering: Mechanical program.*

*Fundamentals of vibration, controls and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical description of system response, system stability, control and optimization. Optimal design of mechanical systems.*

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|---|---|---|---|
| 0101 | Hosam Fathy<br>TuTh 9:30am - 10:45am | Seats (Total: 180)<br>EGR 1202 | |

**ENME371** **Product Engineering and Manufacturing**

(Perm req)

*Prerequisite: ENES221; and (ENME392 or STAT400). Restriction: Must be in Engineering: Mechanical program.*

*Business aspects of engineering product development. Relationship of design and manufacturing. Product specification. Statistical process control. Design team development. The development process.*

| | | | |
|---|---|---|---|
| 0101 | Vincent Nguyen<br>MW 11:00am - 11:50am<br>Th 5:00pm - 6:50pm | Seats (Total: 35)<br>PHY 1412<br>EGL 0101 | <br><br>Lab |
| 0102 | Vincent Nguyen<br>MW 11:00am - 11:50am<br>Th 3:00pm - 4:50pm | Seats (Total: 35)<br>PHY 1412<br>EGL 0101 | <br><br>Lab |
| 0103 | Vincent Nguyen<br>MW 11:00am - 11:50am<br>F 9:00am - 10:50am | Seats (Total: 35)<br>PHY 1412<br>EGL 0101 | <br><br>Lab |
| 0104 | Vincent Nguyen<br>MW 11:00am - 11:50am<br>Th 7:00pm - 8:50pm | Seats (Total: 35)<br>PHY 1412<br>EGL 0101 | <br><br>Lab |
| 0105 | Vincent Nguyen<br>MW 11:00am - 11:50am<br>W 6:00pm - 7:50pm | Seats (Total: 35)<br>PHY 1412<br>EGL 0101 | <br><br>Lab |

**ENME382** **Introduction to Materials Engineering**

(Perm req)

*Prerequisite: ENES100; and permission of ENGR-Mechanical Engineering department. Corequisite: MATH241. Recommended: PHYS261 and PHYS260. Restriction: Permission of ENGR-Mechanical Engineering department. Cross-listed with ENMA300. Credit only granted for: ENMA300 or ENME382.*

*Structure of materials, chemical composition, phase transformations, corrosion and mechanical properties of metals, ceramics, polymers and related materials. Materials selection in engineering applications.*

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|---|---|---|
| 0101 | Carlos Rios Ocampo<br>TuTh 3:30pm - 4:45pm | Seats (Total: 90)<br>ESJ 2204 |
| 0301 | Francis McCluskey<br>MWF 10:00am - 10:50am | Seats (Total: 90)<br>TMH 0301 |

**ENME392** **Statistical Methods for Product and Processes Development**

(Perm req)

*Prerequisite: MATH241.*

*Integrated statistical methodology for the improvement of products and processes in terms of performance, quality and cost. Designed experimentation. Statistical process control. Software application. Laboratory activities.*

Delivered via ITV.

| | | | |
|---|---|---|---|
| 0101 | Michel Cukier<br>TuTh 11:00am - 12:15pm | Seats (Total: 120)<br>JMP 3201 | |
| 0201 | David Bigio<br>Tu 9:30am - 10:45am<br>Th 9:30am - 10:45am | Seats (Total: 114)<br>CHE 2110<br>CHE 2110 | |

**ENME400** **Machine Design**

(Perm req)

*Prerequisite: Must have completed or be concurrently enrolled in ENME361. Restriction: Permission of ENGR-Mechanical Engineering department.*

*Design of mechanical elements and planar machines. Failure theories. Design of pressure vessels, joints, rotating elements, and transmission elements. Kinematic structures, graphical, analytical, and numerical analysis and synthesis of linkages, gear trains, and flywheels are covered.*

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|---|---|---|---|
| 0101 | Chandrasekhar Thamire<br>MW 9:00am - 9:50am<br>F 11:00am - 12:50pm | Seats (Total: 85)<br>CSI 2117<br>CSI 3117 | <br><br>Discussion |
| 0201 | Chandrasekhar Thamire<br>TuTh 10:00am - 10:50am<br>Th 4:00pm - 5:50pm | Seats (Total: 85)<br>JMP 3201<br>CHE 2110 | <br><br>Discussion |

**ENME401** **Entrepreneurial Design Realization**

(Perm req)

*Restriction: Must have senior standing and permission of instructor. Cross-listed with: ENES401. Credit only granted for: ENME401, ENME489B or ENES401. Formerly: ENME489B.*

*The vision for this course, and an aspect that makes it unique, is to expose students to the opportunities and challenges of bringing a product design to reality (entrepreneurship). The emphasis is on environmentally and socially sustainable projects. The end-product of this course will be full-scale implementations or complete design "packages" that can be taken to potential stakeholders.*

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|---|---|---|
| 0201 | Vincent Nguyen<br>TuF 3:00pm - 4:15pm | Seats (Total: 18)<br>EGL 0105 |

**ENME408** **Selected Topics in Engineering Design; Automotive Design**

(Perm req)

*Creativity and innovation in design. Generalized performance analysis, reliability and optimization as applied to the design of components and engineering systems. Use of computers in design of multivariable systems.*

Restriction: Must be in Engineering: Mechanical program; and senior standing. Or permission of ENGR-Mechanical Engineering department. Repeatable to 6 credits if content differs. Creativity and innovation in design. Generalized performance analysis, reliability and optimization as applied to the design of components an engineering systems. Use of computers in design of multivariable systems.

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|---|---|---|
| 0101 | Leonard Hamilton<br>MW 5:00pm - 6:15pm | Seats (Total: 60)<br>KEB 1110 |

**ENME416** **Additive Manufacturing**

(Perm req)

*Prerequisite: ENME331. And ENME272; or ENME414. Restriction: Permission of ENGR-Mechanical Engineering department.*

*Develop a comprehensive understanding of fundamental additive manufacturing, 3D printing approaches, including: extrusion-based deposition, stereolithography, powder bed-based melting, and inkjet-based deposition. Cultivate a design for-additive manufacturing skillset for CAD and CAM methodologies to produce successful 3D prints. Fabricate 3D mechanical objects using a variety of 3D printing technologies on campus. Execute a design project that demonstrates how additive manufacturing technologies can overcome critical limitations of traditional manufacturing processes.*

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|---|---|---|
| 0101 | Ryan Sochol<br>MWF 1:00pm - 1:50pm | Seats (Total: 30)<br>JMP 2121 |
| 0201 | Ryan Sochol<br>MWF 1:00pm - 1:50pm | Seats (Total: 20)<br>ONLINE |

**ENME417** **Numerical Methods in Engineering**

(Perm req)

*Recommended: Senior standing. Restriction: Permission of ENGR-Mechanical Engineering department. Jointly offered with: ENME745. Credit only granted for: ENME745, ENME808B, ENME417 or ENME489J. Formerly: ENME489J.*

*Covers the fundamental aspects of how to apply analytical mathematical concepts to discrete data. The course is aimed at graduate students and senior undergraduate students in any area of engineering, and treats the material in a general manner that is not specific to any application or field of specialization.*

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|---|---|---|
| 0101 | Johan Larsson | Seats (Total: 20) |
| | TuTh 11:00am - 12:15pm | PHY 4221 |

**ENME422** **Indoor Environment and Mechanical Systems**

*Prerequisite: ENES232 and ENME332. Jointly offered with: ENME753. Credit only granted for: ENME422 or ENME753.*

*Fundamentals of indoor air quality and its measurements. Exploration of air cleaning technologies for gaseous, particulate and infectious agent contaminants. Simulations of air flow and contaminants with multi-zone models to allow testing of both contaminant dispersion in buildings and effectiveness of air cleaning technologies.*

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|---|---|---|
| 0101 | Jelena Srebric | Seats (Total: 15) |
| | MW 12:00pm - 1:45pm | JMP 1202 |

**ENME423** **Modern Climate Control and Building Energy Design/Analysis**

(Perm req)

*Prerequisite: ENES232. Corequisite: ENME332. Restriction: Permission of ENGR-Mechanical Engineering department.*

*Fundamentals and design calculations of heat and moisture transfer in buildings; evaluation of cooling, heating and power requirements of buildings; building energy consumption simulations, use of alternative energy and energy conservation measures in buildings; fundamentals of fans/pumps and air/water distribution in buildings; introduction to refrigeration and energy systems for data centers and other mission-critical facilities.*

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|---|---|---|
| 0101 | Michael Ohadi | Seats (Total: 35) |
| | TuTh 12:30pm - 1:45pm | ATL 1114 |

**ENME425** **Energy Conversion Systems for Sustianability**

(Perm req)

*Prerequisite: ENES232. Restriction: Permission of the Mechanical Engineering Department. Credit only granted for: ENME489X or ENME425. Formerly: ENME489X.*

*Focus on energy sustainability with view on changing global energy availability and use. Addresses the objective of greatly reducing our dependence on the finite amounts of fossil energy sources available for our quest to achieve environmentally benign sustainable energy for green environment. The emphasis will be on sustainability issues, discussion on supply, demand and storage, energy transmission, global warming and carbon management, biomass-resources, uses and production of biofuels, national energy policy discussion, carbon emission, energy security and economics to ensure future energy needs can be met without compromising the ability of future generation to meet their own needs with due considerations to increase in global temperatures.*

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|---|---|---|
| 0101 | Ashwani Gupta<br>Th 4:00pm - 6:40pm | Seats (Total: 17)<br>JMP 2120 |

**ENME426** **Production Management**

(Perm req)

*Credit only granted for: BMGT385 or ENME426.*

*The basic concepts and models needed to understand and design manufacturing systems, including the history of manufacturing, performance measures, queuing systems, variability, production planning and scheduling, lean manufacturing, and pull production control.*

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|---|---|---|
| 0101 | Moneer Helu<br>MW 2:00pm - 3:15pm | Seats (Total: 53)<br>ATL 2400 |

**ENME430** **Fundamentals of Nuclear Reactor Engineering**

(Perm req)

*Prerequisite: MATH246. Restriction: Permission of ENGR-Mechanical Engineering department.*

*Fundamental aspects of nuclear physics and nuclear engineering, including nuclear interactions; various types of radiation and their effects on materials and humans; and basic reactor physics topics, including simplified theory of reactor critically.*

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|---|---|---|
| 0101 | Mahmoud Massoud<br>TuTh 2:00pm - 3:15pm | Seats (Total: 50)<br>JMP 2121 |

**ENME432** **Reactor and Radiation Measurements Laboratory**

(Perm req)

*Prerequisite: ENME430 and MATH246. Restriction: Permission of ENGR-Mechanical Engineering department.*

*Basics concepts of nuclear radiation and radiation detectors including types of radiation, radioactive decay, and interactions of radiation with matter.*

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|---|---|---|---|
| 0101 | Amber Johnson<br>Class time/details on ELMs<br>M 3:00pm - 6:00pm | Seats (Total: 10)<br>ONLINE<br>MTH B0431 | <br><br>Lab |
| 0102 | Amber Johnson<br>Class time/details on ELMs<br>W 3:00pm - 6:00pm | Seats (Total: 10)<br>ONLINE<br>MTH B0431 | <br><br>Lab |

**ENME434** **Engineering Quantum Systems and Sensors**

*Prerequisite: PHYS270 and MATH141. Recommended: Any MATH 240, MATH 461, MATH341, or ENEE290 or equivalent courses covering linear algebra, eigenvalues, and eigenvectors. Restriction: Permission of Mechanical Engineering department. Jointly offered with: ENME692. Credit only granted for: ENME434 or ENME692.*

*Designed for students interested in learning quantum mechanics from a technological perspective, illustrated through specific examples from quantum engineering at the nanoscale and from discrete quantum systems. The focus is not on textbook examples such as hydrogen atom solutions and angular momentum algebra. Instead, focus areas would be quantum sensors and systems, description and control of quantum noise, which should elicit particular appeal across many areas of engineering and physical sciences. The course will prepare students for emerging quantum technologies besides computing and cryptography that are part of the Quantum 2.0 revolution.*

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|---|---|---|
| 0101 | Avik Dutt<br>TuTh 3:30pm - 4:45pm | Seats (Total: 20)<br>EGR 3106 |

**ENME441** **Mechatronics and the Internet of Things**

(Perm req)

*Prerequisite: ENME351. Restriction: Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENME489B or ENME441. Formerly: ENME489B.*

*Mechatronics and the Internet of Things combines sensors, actuators, computation, and communication to realize integrated objects capable of robust Internet-based interfacing. Students will gain experience with circuit development, mechatronic systems, MicroPython coding, and Internet communication protocols using the ESP32 microcontroller platform. The project-focused course combines lectures and hands-on labs to drive learning at the convergence of mechanics, electronics, and software domains for IoT smart object development.*

| | | |
|---|---|---|
| 0101 | Don DeVoe<br>M 3:30pm - 4:45pm<br>W 3:30pm - 4:45pm | Seats (Total: 60)<br>IRB 1116<br>AJC 1106 |

**ENME444** **Assistive Robotics**

(Perm req)

*Prerequisite: ENME351; and must have completed or be concurrently enrolled in ENME462. Restriction: Permission of ENGR-Mechanical Engineering department.*

*Fundamentals of assistive robots used in a wide varietyof ways to help humans with disabilities. Three application areas will be covered: (1) Rehabilitation robotics to recover motor function from neurologic injuries such as stroke, (2) Prosthetics to enable mobility function in amputees, and (3) Social robotics for cognitive impairment and developmental disorders such as autism. Theory behind different control systems employed by assistive robotics, as well as the mechanical design, sensors & actuators, and user interfaces behind representative robots in the respective areas. Guidelines for designing assistive robots. Ethical and regulatory considerations in the design of assistive robots.*

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|---|---|---|---|
| 0101 | Hugh Bruck<br>TuTh 12:30pm - 1:45pm | Seats (Total: 34)<br>EGR 2154 | |

**ENME454** **Vehicle Dynamics**

(Perm req)

*Corequisite: ENME361. Restriction: Permission of ENGR-Mechanical Engineering department.*

*The fundamentals of passenger vehicle and light truck design and vehicle dynamics are covered. The engineering principles associated with acceleration, braking, handling, ride quality, aerodynamics, and tire mechanics are discussed, as well as suspension and steering design.*

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|---|---|---|---|
| 0101 | Vincent Nguyen<br>MW 3:30pm - 4:45pm | Seats (Total: 66)<br>PLS 1130 | |

**ENME462** **Vibrations, Controls, and Optimization II**

(Perm req)

*Prerequisite: ENME361. Restriction: Permission of the Mechanical Engineering Department.*

*Continuation of ENME361. Fundamentals of vibration, controls, and optimization. Analysis and design in time, Laplace and frequency domains. Mathematical descriptions of system response, system stability, control and optimization. Optimal design of mechanical systems.*

Delivered via ITV.

| | | | |
|---|---|---|---|
| 0101 | Sami Ainane<br>MW 10:00am - 10:50am<br>W 1:00pm - 2:50pm | Seats (Total: 40)<br>JMP 3201<br>KEB 2111 | <br><br>Discussion |
| 0102 | Sami Ainane<br>MW 10:00am - 10:50am<br>F 3:00pm - 4:50pm | Seats (Total: 40)<br>JMP 3201<br>KEB 2111 | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 0103 | Sami Ainane<br>MW 10:00am - 10:50am<br>F 10:00am - 11:50am | Seats (Total: 40)<br>JMP 3201<br>KEB 2111 | Discussion |
| 0201 | Amr Baz<br>MW 10:00am - 10:50am<br>M 2:00pm - 3:50pm | Seats (Total: 42)<br>CSI 2117<br>KEB 2111 | Discussion |
| 0202 | Amr Baz<br>MW 10:00am - 10:50am<br>M 11:00am - 12:50pm | Seats (Total: 42)<br>CSI 2117<br>KEB 2111 | Discussion |

**ENME470** **Finite Element Analysis**

(Perm req)

*Restriction: Senior standing; and permission of ENGR-Mechanical Engineering department.*

*Basic concepts of the theory of the finite element method. Applications in solid mechanics and heat transfer.*

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|---|---|---|
| 0101 | Peter Chung<br>TuTh 12:30pm - 1:45pm | Seats (Total: 48)<br>JMP 2116 |

**ENME472** **Integrated Product and Process Development**

(Perm req)

*Prerequisite: ENME331, ENME361, ENME351, and ENME371; and must have completed or be concurrently enrolled in ENME332. Restriction: Permission of the Department of Mechanical Engineering.*

*Integration of product development with the development process. Design strategies. Product architecture. Design for manufacturing. Selection of materials. Design for assembly.*

| | | |
|---|---|---|
| 0101 | Elisabeth Smela<br>MW 10:00am - 11:50am | Seats (Total: 30)<br>EGL 0105 |
| 0102 | Aris Cleanthous<br>MW 12:00pm - 1:50pm | Seats (Total: 30)<br>EGL 0105 |
| 0104 | Miao Yu<br>TuTh 10:00am - 11:50am | Seats (Total: 30)<br>EGL 0105 |
| 0105 | Shapour Azarm<br>TuTh 12:00pm - 1:50pm | Seats (Total: 30)<br>EGL 0105 |

**ENME473** **Mechanical Design of Electronic Systems**

(Perm req)

*Prerequisite: ENME351. Restriction: Permission of the Department of Mechanical Engineering. Jointly offered with: ENME690. Credit only granted for: ENME473 or ENME690.*

*An understanding of the fundamental mechanical principles used in design of electronic devices and their integration into electronic systems will be provided. Focus will be placed on the effect of materials compatibility, thermal stress, mechanical stress, and environmental exposure on product performance, durability and cost. Both electronic devices and package assemblies will be considered. Analysis of package assemblies to understand thermal and mechanical stress effects will be emphasized through student projects.*

Delivered via ITV.

| | | | |
|---|---|---|---|
| 0101 | Bongtae Han<br>MW 2:00pm - 3:15pm | Seats (Total: 25)<br>JMP 2121 | |

**ENME479** **Selected Topics in Mechanical Engineering**

(Perm req)

*Covers current topics in mechanical engineering and related fields.*

**Contact department for information to register for this course.**

**ENME480** **Introduction to Robotics**

(Perm req)

*Prerequisite: MATH246 or ENES221; and (CMSC131, ENME202, ENAE202 or ENEE150). Restriction: Must be in the Robotics and Autonomous Systems minor; or Permission of ENGR-Mechanical Engineering department. Credit only granted for: ENME480 or ENMT380.*

*An introductory course in robotics that will educate students in the elementary concepts of robotics. The course will encompass both theory and experiments.*

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|---|---|---|---|
| 0101 | Nikhil Chopra<br>MW 2:00pm - 2:50pm<br>Th 12:00pm - 2:00pm | Seats (Total: 37)<br>ATL 2324<br>KEB 2111 | <br><br>Lab |
| 0102 | Nikhil Chopra<br>MW 2:00pm - 2:50pm<br>F 8:00am - 10:00am | Seats (Total: 42)<br>ATL 2324<br>KEB 2111 | <br><br>Lab |

**ENME488** **Special Problems**

(Perm req)

*Advanced problems in mechanical engineering with special emphasis on mathematical and experimental methods.*

Limited to mechanical engineering seniors.

**Contact department for information to register for this course.**

**ENME489** **Special Topics in Mechanical Engineering**

(Perm req)

*Selected topics of current importance in mechanical engineering.*

**Contact department for information to register for this course.**

**ENME489C** **Special Topics in Mechanical Engineering; Sustainable Energy Conversion and the Environment**

*Selected topics of current importance in mechanical engineering.*

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|---|---|---|
| 0101 | Kurt Radermacher<br>Tu 4:00pm - 6:40pm | Seats (Total: 10)<br>JMP 2217 |

**ENME489F** **Special Topics in Mechanical Engineering; Dynamics of Atmospheric Flight**

(Perm req)

*Selected topics of current importance in mechanical engineering.*

Prerequisite: ENME331.

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|---|---|---|
| 0101 | David Findlay<br>W 3:30pm - 6:10pm | Seats (Total: 10)<br>ONLINE |

**ENME489O** **Special Topics in Mechanical Engineering; Design for Manufacturing and Assembly**

(Perm req)

*Selected topics of current importance in mechanical engineering.*

Prerequisite: ENME382. Restriction: permission of department.

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|---|---|---|
| 0101 | Mohammad Fazelpour<br>MW 1:00pm - 2:15pm | Seats (Total: 40)<br>AJC 2121 |

**ENME489U** **Special Topics in Mechanical Engineering; Fluid Structure Interactions**

(Perm req)

*Selected topics of current importance in mechanical engineering.*

Prerequisites: ENME361 and ENME331.

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|---|---|---|
| 0101 | Eleonora Tubaldi | Seats (Total: 10) |
| | TuTh 9:30am - 10:45am | PLS 1111 |

**ENME489V** **Special Topics in Mechanical Engineering; Mechanical Contracting**

(Perm req)

*Selected topics of current importance in mechanical engineering.*

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|---|---|---|
| 0101 | Michael Mack | Seats (Total: 30) |
| | Th 8:00am - 10:40am | JMP 1202 |

**ENME489Z** **Special Topics in Mechanical Engineering; Structural Mechanics - Aerospace Applications**

(Perm req)

*Selected topics of current importance in mechanical engineering.*

Prerequisite: ENES220 and MATH246. Restriction: permission of department.

**Contact department for information to register for this course.**

**ENME605** **Advanced Systems Control**

*Prerequisite: ENME462; or permission of instructor.*

*Modern control theory for both continuous and discrete systems. State space representation is reviewed and the concepts of controllability and observability are discussed. Design methods of deterministic observers are presented and optimal control theory is formulated. Control techniques for modifying system characteristics are discussed.*

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|---|---|---|
| 0101 | Jin-Oh Hahn | Seats (Total: 25) |
| | MW 12:30pm - 1:45pm | CHE 2145 |

**ENME610** **Engineering Optimization**

*Overview of applied single- and multi- objective optimization and decision making concepts and techniques with applications in engineering design and/or manufacturing problems. Topics include formulation examples, concepts, optimality conditions, unconstrained/constrained methods, and post-optimality sensitivity analysis. Students are expected to work on a semester-long real-world multi-objective engineering project.*

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|---|---|---|
| 0101 | Shapour Azarm | Seats (Total: 25) |
| | Tu 4:00pm - 6:40pm | EGR 3114 |

**ENME631** **Advanced Conduction and Radiation Heat Transfer**

*Prerequisite: ENME332; or students who have taken courses with comparable content may contact the department; or permission of instructor.*

*Theory of conduction and radiation. Diffused and directional, poly- and mono-chromatic sources. Quantitative optics. Radiation in enclosures. Participating media. Integrodifferential equations. Multidimensional, transient and steady-state conduction. Phase change. Coordinate system transformations.*

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|---|---|---|
| 0101 | Bao Yang | Seats (Total: 25) |
| | MW 2:00pm - 3:15pm | MTH 0104 |

**ENME640 Fundamentals of Fluid Mechanics**

*Prerequisite: Must have completed partial differential equations at the level of MATH 462; or permission of ENGR-Mechanical Engineering department. Formerly: ENME651.*

*Equations governing the conservation of mass, momentum, vorticity and energy in fluid flows. Low Reynolds number flows. Boundary layers. The equations are illustrated by analyzing a number of simple flows. Emphasis is placed on physical understanding to facilitate the study of advanced topics in fluid mechanics.*

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|---|---|---|
| 0101 | Siddhartha Das | Seats (Total: 30) |
| | MW 3:30pm - 4:45pm | MTH 0401 |

**ENME645 Fluid-Structure Interactions**

*Prerequisite: ENME331 and ENME361. Restriction: Must be a student in the Clark School of Engineering. Credit only granted for: ENME498U, ENME645 or ENME809C. Formerly: ENME809C.*

*Fundamentals of fluid-structure interactions, fluid-elastic instabilities (buckling, flutter, galloping) and their engineering applications. Possible domains of applications are civil engineering, aerospace engineering, ocean engineering, biomechanics, and soft robotics. Examples include tall bridges, aircraft wing, parachutes, solid rocket motor, turbomachinery, offshore platform, subsea pipelines, paper printing, MEMS mircochannels, blood flow in arteries, and heart valves. The fish swimming mechanics with be studied to inspire novel efficient propulsion mechanisms for soft robotics applications.*

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|---|---|---|
| 0101 | Eleonora Tubaldi | Seats (Total: 15) |
| | TuTh 9:30am - 10:45am | PLS 1111 |

**ENME662 Linear Vibrations**

*Development of equations governing small oscillations and spatially continuous systems. Newton's equations, Hamilton's principle, and Lagrange's equations. Free and forced vibrations of mechanical systems. Modal analysis. Finite element discretization and reductions of continuous systems. Numerical methods. Random vibrations.*

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|---|---|---|
| 0101 | Amr Baz | Seats (Total: 20) |
| | MW 5:00pm - 6:15pm | EGR 2154 |

**ENME674 Finite Element Methods**

*Restriction: Must be in one of the following programs (ENGR: MS/PhDMechanical Engineering (Master's); ENGR: MS/PhDMechanical Engineering (Doctoral); ENGR: MS/PhDReliability Engineering (Master's); ENGR: MS/PhDReliability Engineering (Doctoral); or permission of ENGR-Mechanical Engineering department. Credit only granted for: ENME 674, ENAE652, ENPM652 or ENPM808F.*

*Theory and application of finite element methods for mechanical engineering problems such as stress analysis. Basic development of the method for solving the types of governing partial differential equations that are the foundations for many engineering and physical sciences. The emphasis is on balancing the theoretical/mathematical background with a computable implementation to reach applications. Some code writing and debugging will be involved. This class is suited for graduate students or high-achieving undergraduates in engineering, mathematics, or the physical sciences. A very basic knowledge of matrix-vector calculations and multivariable calculus are required. Some exposure to partial differential equations and experience with Matlab or a compiled language will be helpful but are not required.*

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|---|---|---|
| 0101 | Abhijit Dasgupta<br>MW 11:00am - 12:15pm | Seats (Total: 25)<br>EGR 2154 |

**ENME690** **Mechanical Fundamentals of Electronic Systems**

*Prerequisite: ENME351; or equivalent. Jointly offered with: ENME473. Credit only granted for: ENME473 or ENME690.*

*An understanding of the fundamental mechanical principles used in design of electronic devices and their integration into electronic systems will be provided. Focus will be placed on the effect of materials compatibility, thermal stress, mechanical stress, and environmental exposure on product performance, durability and cost. Both electronic devices and package assemblies will be considered. Analysis of package assemblies to understand thermal and mechanical stress effects will be emphasized through student projects.*

| | | |
|---|---|---|
| 0101 | Bongtae Han<br>MW 2:00pm - 3:15pm | Seats (Total: 25)<br>JMP 2121 |
| ER01 | Bongtae Han<br>Class time/details on ELMs | Seats (Total: 15)<br>ONLINE |
| RE01 | Bongtae Han<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE |

**ENME691** **Industrial Artificial Intelligence**

*Prerequisite: ENME202; or equivalent; experience using Python; or permission of the instructor. Credit only granted for: ENME485 or ENME691.*

*Introduces students to advanced technologies - such as machine learning and tools, prognostics and health management (PHM), and data-centric engineering analytics - that ultimately enable the conversion of industrial big data into decision-ready information that can be used to improve the design, the productivity and the efficiency of industrial systems.*

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|---|---|---|
| 0101 | Jay Lee<br>M 12:30pm - 3:10pm | Seats (Total: 25)<br>JMP 2202 |

**ENME692** **Engineering Quantum Systems and Sensors**

*Prerequisite: PHYS270 and MATH141. Recommended: Any MATH 240, MATH 461, MATH341, or ENEE290 or equivalent courses covering linear algebra, eigenvalues, and eigenvectors . Jointly offered with: ENME434. Credit only granted for: ENME434 or ENME692.*

*Designed for students interested in learning quantum mechanics from a technological perspective, illustrated through specific examples from quantum engineering at the nanoscale and from discrete quantum systems. The focus is not on textbook examples such as hydrogen atom solutions and angular momentum algebra. Instead, focus areas would be quantum sensors and systems, description and control of quantum noise, which should elicit particular appeal across many areas of engineering and physical sciences. The course will prepare students for emerging quantum technologies besides computing and cryptography that are part of the Quantum 2.0 revolution.*

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|---|---|---|
| 0101 | Avik Dutt<br>TuTh 3:30pm - 4:45pm | Seats (Total: 20)<br>EGR 3106 |

**ENME701** **Sustainable Energy Conversion and the Environment**

*Prerequisite: Undergraduate thermodynamics course or permission of instructor.*

*Discussion of the major sources and end-uses of energy in our society with particular emphasis on renewable energy production and utilization. The course introduces a range of innovative technologies and discusses them in the context of the current energy infrastructure. Renewable sources such as wind and solar, and renewable enabling technologies such as energy storage are discussed in detail. Particular attention is paid to the environmental impact of the various forms of energy. This course is designed to provide, when taken together with ENME635, a comprehensive overview of sustainable energy production and utilization including carbon capture and sequestration.*

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|---|---|---|
| 0101 | Kurt Radermacher<br>Tu 4:00pm - 6:40pm | Seats (Total: 19)<br>JMP 2217 |
| ME01 | Kurt Radermacher<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE |

**ENME737** **Application of AI in Reliability: Prognostics and Systems Health Management (PHM)**

*Credit only granted for: ENME737 or ENME808A. Formerly: ENME808A.*

*Prognostics and health management (PHM) is an enabling discipline consisting of technologies and methods to assess the reliability of a product in its actual life cycle conditions to determine the advent of failure and mitigate system risk. PHM permits the reliability of a system to be evaluated and predicted in its actual application conditions. In recent years, prognostics and health management (PHM) has emerged as a key enabling technology to provide an early warning of failure; to forecast maintenance as needed; to reduce maintenance cycles; to assess the potential for life extensions; and to improve future designs and qualification methods. In the future, PHM will enable systems to assess their own real-time performance (self-cognizant health management and diagnostics) under actual usage conditions and adaptively enhance life cycle sustainment with risk-mitigation actions that will virtually eliminate unplanned failures.*

| | | |
|---|---|---|
| 0101 | Jay Lee, Michael Azarian, Michael Pecht<br>M 9:30am - 12:10pm | Seats (Total: 20)<br>JMP 2217 |
| ER01 | Michael Pecht, Jay Lee, Michael Azarian<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE |
| RE01 | Jay Lee, Michael Azarian, Michael Pecht<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE |

**ENME741 Operations Research Models in Engineering**

*Prerequisite: (ENCE302; or (ENME271 and ENME392)); and (MATH140 and MATH240).*

*A survey of the fundamentals of operations research models and methods in engineering including: optimization using linear programming, nonlinear programming, integer programming, as well as equilibrium/game theory via mixed complementarity problems. Examples of specialized course items include: specifics of optimizing power and gas networks, discussion of other network optimization problems, resource-constrained problems, two-level optimization as an example of mixed integer nonlinear programming (MINLP) programming problems as well as algorithms to solve the above types of problems."*

Jointly offered with ENRE648E. Credit only granted for ENME741 or ENRE648E.

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|---|---|---|
| 0101 | Steven Gabriel<br>Tu 9:30am - 12:00pm | Seats (Total: 15)<br>JMP 2120 |
| ER01 | Steven Gabriel<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE |
| RE01 | Steven Gabriel<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE |

**ENME744 Additive Manufacturing**

*Prerequisite: ENME272 and ENME331; or students who have taken courses with comparable content may contact the department. Jointly offered wit h ENME416. Credit only granted for: ENME 416 OR ENME 744.*

*Develop a comprehensive understanding of fundamental additive manufacturing-alternatively, "three-dimensional (3D) printing-approaches, including extrusion-based deposition, stereolithography, powder bed-based melting, and inkjet-based deposition. Cultivate a "design-for-additive manufacturing" skill set for combining computer-aided design (CAD) and computer-aided manufacturing (CAM) methodologies to produce successful 3D prints. Fabricate 3D mechanical objects using a variety of 3D printing technologies on campus. Execute a design project that demonstrates how additive manufacturing technologies can overcome critical limitations of traditional manufacturing processes.*

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|---|---|---|
| 0101 | Ryan Sochol<br>MWF 1:00pm - 1:50pm | Seats (Total: 20)<br>JMP 2121 |
| DE01 | Ryan Sochol<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENME745** **Numerical Methods in Engineering**

*Jointly offered with: ENME417. Credit only granted for: ENME745, ENME808B, ENME417 or ENME489J. Formerly: ENME808B.*

*Fundamental aspects of how to apply analytical mathematical concepts to discrete data. The course is aimed at graduate students in any area of engineering, and treats the material in a general manner that is not specific to any application or field of specialization.*

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|---|---|---|
| 0101 | Johan Larsson<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>PHY 4221 |

**ENME753** **Indoor Environment and Mechanical Systems**

*Jointly offered with: ENME422. Credit only granted for: ENME422, ENME753, or ENME808U. Formerly: ENME808U.*

*Fundamentals of indoor air quality and its measurements. Exploration of air cleaning technologies for gaseous, particulate and infectious agent contaminants. Simulations of air flow and contaminants with multi-zone models to allow testing of both contaminant dispersion in buildings and effectiveness of air cleaning technologies.*

| | | |
|---|---|---|
| 0101 | Jelena Srebric<br>MW 12:00pm - 1:45pm | Seats (Total: 10)<br>JMP 1202 |

**ENME799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**ENME808** **Advanced Topics in Mechanical Engineering**

**Contact department for information to register for this course.**

**ENME808Q** **Advanced Topics in Mechanical Engineering; Modern Climate Control and Building Energy Design/Analysis**

(Perm req)

Prerequisite: ENES232. Corequisite: ENME332. Restriction: Permission of ENGR-Mechanical Engineering department. Fundamentals and design calculations of heat and moisture transfer in buildings; evaluation of cooling, heating and power requirements of buildings; building energy consumption simulations, use of alternative energy and energy conservation measures in buildings; fundamentals of fans/pumps and air/water distribution in buildings; introduction to refrigeration and energy systems for data centers and other mission-critical facilities.

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|---|---|---|
| 0101 | Michael Ohadi<br>TuTh 12:30pm - 1:45pm | Seats (Total: 5)<br>ATL 1114 |

**ENME808T** **Advanced Topics in Mechanical Engineering; Network Control Systems**

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|---|---|---|
| 0101 | Yancy Diaz-Mercado<br>MW 3:30pm - 4:45pm | Seats (Total: 20)<br>EGR 3102 |

**ENME809** **Special Topics in Mechanical Engineering**

(Perm req)

*Covers current topics in mechanical engineering and related fields.*

**Contact department for information to register for this course.**

**ENME898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**ENME899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# ENMT Mechatronics Engineering Fall 2024

**ENMT301** **Structural Dynamics**

*Prerequisite: Minimum grade of C- in ENES220. Restriction: Must be in the Mechatronics Engineering program.*

*An introduction to modeling and structural analysis of mechatronic structures subject to dynamic loading. It deals with preliminary analysis of primary structure for mechatronics components, including such topics as load determination, torsion, bending, shear, buckling, fatigue and thermal analysis of thin-walled structures. Emphasis is placed on solving problems by finding the differential equations of motion of model systems and solving these equations analytically or numerically in Matlab.*

| | | | |
|---|---|---|---|
| ESG1 | Norman Wereley | Seats (Total: 15) | |
| | TuTh 11:00am - 12:15pm | BLD4 4321 | |
| | Th 2:30pm - 4:20pm | BLD4 5210 | Lab |
| | *Restricted to students in the Mechatronics Engineering Program at USG.* | | |

**ENMT322 Discrete Signal Analysis**

*Prerequisite: Minimum grade of C- in MATH246. Restriction: Must be in the Mechatronics Engineering program.*

*Analysis techniques for simulating resonances and impedances in systems that couple physical interactions electrical, mechanical, magnetic and piezoelectric domains. Analysis applied to modeling the electro-magneto-mechano-acoustic domain interactions in traditional loudspeaker designs, and can be extended to the design of sensors, energy harvesters and actuators.*

| | | | |
|---|---|---|---|
| ESG1 | Gurtajbir Herr | Seats (Total: 15) | |
| | MW 11:30am - 12:45pm | BLD4 1119 | |
| | M 2:00pm - 3:50pm | BLD4 5210 | Lab |
| | *Restricted to students in the Mechatronics Engineering Program at USG.* | | |

**ENMT361 Mechatronics and Controls I**

*Prerequisite: Minimum grade of C- in PHYS270 and PHYS271. Restriction: Must be in the Mechatronics Engineering program.*

*Basic instrumentation electronics including DC electronics, AC electronics, semiconductors, electro-optics and digital electronics. Sensing devices used to carry out experiments including meteorology, machine tool measurements, bridge circuits, optical devices, and introduction to computer based data acquisition.*

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|---|---|---|---|
| ESG1 | Young Choi | Seats (Total: 15) | |
| | MW 1:00pm - 1:50pm | BLD4 3305 | |
| | W 2:30pm - 4:20pm | BLD4 5210 | Lab |
| | *Restricted to students in the Mechatronics Engineering Program at USG.* | | |

**ENMT380 Intro to Robotics**

*Prerequisite: Minimum grade of C- in ENME202 or ENAE202; and minimum grade of C- in ENES221 and MATH246. Restriction: Must be in the Mechatronics Engineering program. Credit only granted for: ENMT380 or ENME480.*

*Introduces basic concepts for deployment of robotic systems in mechatronics. This course will introduce students to the elementary concepts in robotics, with emphasis on robotic manipulators. It will encompass both theory and laboratory components with programming on real manipulators.*

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|---|---|---|---|
| ESG1 | Gurtajbir Herr<br>TuTh 12:30pm - 1:45pm<br>Tu 2:30pm - 4:20pm | Seats (Total: 15)<br>BLD4 3305<br>BLD4 5210 | <br><br>Lab |
| | *Restricted to students in the Mechatronics Engineering Program at USG.* | | |

# ENPM Engineering, Professional Masters Fall 2024

**ENPM606** **Data Science**

*Prerequisite: Comfortable with basic math concepts (sums, variables), discrete math, and some programming experience (i.e. have taken an introductory programming course or equivalent, in any language, but preferably Python). Credit only granted for: ENPM808W or ENPM606. Formerly: ENPM808W .*

*The purpose of this course is to teach some of the best and most general approaches to get the most out of data through clustering, classification, and regression techniques. Students will gain experience analyzing several kinds of data, including document collections, financial data, scientific data, and natural images.*

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|---|---|---|
| DE01 | Ali Seyed<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |
| DE02 | Ali Seyed<br>Tu 7:00pm - 9:40pm | Seats (Total: 25)<br>ONLINE |

**ENPM611** **Software Engineering**

*Prerequisite: Competency in one programming language; and must have completed an undergraduate software engineering course.*

*Software engineering concepts, methods, and practices important to both the theorist and the practitioner will be covered. The entire range of responsibilities expected of a software engineer are presented. The fundamental areas of requirements development, software design, programming languages, and testing are covered extensively. Sessions on supporting areas such as systems engineering, project management, and software estimation are also included.*

| | | |
|---|---|---|
| 0101 | Christopher Ackermann<br>M 4:00pm - 6:40pm | Seats (Total: 38)<br>JMP 2216 |
| 0201 | Karthikeyan Chandrashekar<br>Th 7:00pm - 9:40pm | Seats (Total: 38)<br>JMP 2216 |
| SW01 | Christopher Ackermann<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM613** **Software Design & Implementation**

(Perm req)

*Prerequisite: ENPM611. Restriction: Permission of Maryland Applied Graduate Engineering.*

*Covers the software design process, from understanding the need or problem, to creating suitable architecture and detailed design solutions, to preserving and evolving the design during implementation and maintenance. The main study topics include: requirements analysis models; user centered design; architecture design through decomposition and composition; architecture styles and architecture tactics for supporting various quality attributes such as security and usability; design for reuse and with reuse; detailed design object-oriented principles (such as SOLID) and design patterns; approaches for evaluating, comparing, and selecting design solutions; standard notations for documenting architecture views, detailed design, and analysis models; and industry standards for creating design deliverables. Students will acquire not only technical knowledge, but also soft skills such as communication, collaborations, critical thinking, leadership, negotiation, and time management.*

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|---|---|---|
| 0101 | Tony Barber<br>W 7:00pm - 9:40pm | Seats (Total: 52)<br>JMP 2121 |
| SW01 | Tony Barber<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM615** **Embedded Systems**

*Prerequisite: Must have completed undergraduate courses in logic design, computer architecture, and programming.*

*Introduction to embedded systems design and evaluation: requirements, specification, architecture, hardware and software components, integration and performance evaluation. Topics include instruction sets, CPU, embedded computing platform, program design and analysis, operating systems, hardware accelators, multiprocessors, networks, and system analysis. Real-life embedded systems design examples will be used throughput the course to illustrate these concepts.*

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|---|---|---|
| 0101 | Manoj Franklin<br>Th 4:00pm - 6:40pm | Seats (Total: 39)<br>JMP 2222 |
| EB01 | Manoj Franklin<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM621** **Heat Pump and Refrigeration Systems Design Analysis**

*Thermal engineering of heat pump and refrigeration systems and thermal systems modeling. Thermodynamics and heat transfer. Cycle analysis, alternative refrigerants, graphical analysis using property charts. Analysis of applications such as space conditioning, food perservation, manufacturing, heat recovery and cogeneration.*

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|---|---|---|
| 0101 | Jiazhen Ling<br>W 4:00pm - 6:40pm | Seats (Total: 29)<br>JMP 2222 |

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|---|---|---|
| DE01 | Jiazhen Ling<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM622** **Energy Conversion I - Stationary Power**

*Thermal engineering of modern power generation systems. Cycle analysis of various modern power generation technologies including gas turbine, combined cycle, waste burning and cogeneration. Energy storage and energy transport.*

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|---|---|---|
| 0101 | Patrick Caton<br>W 7:00pm - 9:40pm | Seats (Total: 29)<br>JMP 2217 |
| ME01 | Patrick Caton<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM625** **Heating, Ventilation and Air Conditioning of Buildings**

*Prerequisite: Undergraduate thermodynamics, fluid mechanics and heat transfer.*

*Fundamentals of heating, ventilation and air conditioning analysis and design. Thermodynamics, heat transfer and fluid mechanics principles applied to field problems. Quantitative analyses stressed. Topics include psychometrics, thermal loads, incompressible flow in ducts and pipes, heat exchangers, cooling towers, and refrigeration.*

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|---|---|---|
| 0101 | Karim Amrane<br>Th 4:00pm - 6:40pm | Seats (Total: 38)<br>JMP 2216 |
| DE01 | Karim Amrane<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM633** **Introduction to Machine Learning**

*Credit only granted for: ENPM808A, ENME808E or ENPM633.*

*Basic algorithms and techniques in machine learning and their practical implementation.*

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|---|---|---|
| 0101 | Nikhil Chopra<br>Th 1:00pm - 3:30pm | Seats (Total: 39)<br>JMP 2222 |
| DE01 | Nikhil Chopra<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM634** **Penetration Testing**

*Prerequisite: Familiarity with Linux and Windows operating systems, as well as TCP/IP and basic networking concepts. Credit only granted for: ENPM809Q or ENPM634. Formerly: ENPM809Q.*

*This course will give students a hands-on deep dive into penetration testing tools and methodologies. Starting with reconnaissance, open source intelligence, and vulnerability scanning we will move on to exploiting both clients and servers, moving laterally through a network while evading security measures.*

| | | |
|---|---|---|
| 0101 | Michael Wittner<br>M 7:00pm - 9:40pm | Seats (Total: 80)<br>JMP 3201 |
| 0201 | Michael Wittner<br>M 4:00pm - 6:40pm | Seats (Total: 39)<br>JMP 2222 |
| CY01 | Michael Wittner<br>Class time/details on ELMs | Seats (Total: 30)<br>ONLINE |

**ENPM640** **Rehabilitation Robotics**

*Recommended: Basic understanding of linear time-invariant control systems (e.g. ENPM667) is preferred but not required. No background or previous experience in assistive robotics, human biomechanics, and/or neuroscience is required. Credit only granted for: ENPM808J, ENPM640, or ENME444. Formerly: ENPM808J.*

*An introduction to a field of robotics dedicated to improving the lives of people with disabilities. The course is designed for students wishing to learn more about rehabilitation robotics, one of the fasting growing fields of robotics. Rehabilitation robotics is the application of robots to overcome disabilities resulting from neurologic injuries and physical trauma, and improve quality of life. This course considers not only engineering design and development, but also the human factors that make some innovative technologies successful and others commercial failures. Engineering innovation by itself, without considering other factors such as evidence-based R&D and product acceptance, may mean that some technologies don't become or remain available or are inefficacious to aid their intended beneficiaries. This course differs from medical robotics in its focus on improving the quality of life through robot-mediated rehabilitation treatments, rather than improving or enhancing applications such as surgical interventions.*

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|---|---|---|
| 0101 | Anindo Roy<br>F 1:00pm - 3:40pm | Seats (Total: 39)<br>JMP 2222 |
| RO01 | Anindo Roy<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM645** **Human-Robot Interaction**

*Recommended: Some knowledge of A.I. fundamentals and data analytics recommended, but not required. Credit only granted for: ENPM808K or ENPM645. Formerly: ENPM808K.*

*To define the intersection of human-robot interactions to include human-computer interfaces, as well as robotic emotions and facial expressions emulations. The result will provide a basis for students to assess the best approaches for interacting effectively with robots. Areas to be covered include biologically-inspired robotics, cognitive robotics, cultural and social aspects of robotics, data mining, examples of human systems interfaces, and machine learning with respect to A.I. principles and limitations.*

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|---|---|---|
| 0101 | Josef Schaff<br>W 7:00pm - 9:40pm | Seats (Total: 75)<br>JMP 3201 |
| 0201 | Josef Schaff<br>W 4:00pm - 6:40pm | Seats (Total: 38)<br>JMP 2216 |
| RO01 | Josef Schaff<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM655** **AI-Based Software Systems**

*Credit only granted for: ENPM808O or ENPM655. Formerly: ENPM808O.*

*The goal of this new course is to address the important problem of specifying, developing, and testing software systems that are based on artificial intelligence (AI) components.*

| | | |
|---|---|---|
| 0101 | Joshua Giltinan, Mikael Lindvall<br>Tu 7:00pm - 9:40pm | Seats (Total: 52)<br>JMP 3201 |
| SW01 | Joshua Giltinan, Mikael Lindvall<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM660** **Wind Energy Engineering**

*An examination of four central topics in wind energy engineering: the nature of wind energy as a resource for generating electricity; the aerodynamics of wind turbines by which the wind energy is converted into mechanical energy; the mechanics and dynamics of the wind energy system (tower, rotor, hub, drive train, and generator); and the electrical aspects of wind turbines. Additional topics to be included in the course include:Wind turbine design; wind turbine control; wind turbine siting, system design, and integration; Wind energy system economics; and wind energy systems environmental impacts and aspects. The course is intended to pass along substantial subject matter knowledge and skills, it can only be treated as an introduction to this extensive, multidisciplinary topic. However, students are expected to emerge with a substantial knowledge of wind energy systems and the methods used to analyze such systems.*

| | | |
|---|---|---|
| ME01 | Kyosung Choo<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM662** **Introduction to Robot Modeling**

*Recommended: Students should have intermediate programming skills (Python) and basic algebra knowledge for this course.*

*This course introduces basic principles for modeling a robot. Most of the course is focused on modeling manipulators based on serial mechanisms. The course begins with a description of the homogenous transformation and rigid motions. It then introduces concepts related to kinematics, inverse kinematics, and Jacobians. This course then introduces Eulerian and Lagrangian Dynamics. Finally, the course concludes by introducing basic principles for modeling manipulators based on parallel mechanisms. The concepts introduced in this course are subsequently utilized in control and planning courses.*

| | | |
|---|---|---|
| 0201 | Reza Monfaredi<br>Th 4:00pm - 6:40pm | Seats (Total: 75)<br>JMP 3201 |
| RO01 | Reza Monfaredi<br>Class time/details on ELMs | Seats (Total: 25)<br>ONLINE |

**ENPM665** **Cloud Security**

*Credit only granted for: ENPM809J or ENPM665. Formerly: ENPM809J.*

*Covers the fundamentals of securing cloud-based workloads from the ground up with many hands-on examples. Through these hands-on exercises the course will demonstrate where the similarities and differences are when securing the cloud compared to securing traditional IT.*

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|---|---|---|
| 0101 | Thomas Dineen<br>W 7:00pm - 9:40pm | Seats (Total: 38)<br>JMP 2216 |
| 0201 | Everett Daviage<br>Th 4:00pm - 6:40pm | Seats (Total: 43)<br>JMP 2121 |
| AEB1 | Thomas Dineen<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM667** **Control of Robotic Systems**

*This is a basic course on the design of controllers for robotic systems. The course starts with mainstay principles of linear control, including a review of elementary concepts of systems, and discusses applications to independent joint control. The second part of the course introduces a physics-based approach to control design that uses energy and optimization principles to tackle the design of controllers that exploit the underlying dynamics of robotic systems. The course ends with an introduction to force control and basic principles of geometric control if time allows.*

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|---|---|---|
| 0201 | Waseem Malik<br>M 7:00pm - 9:40pm | Seats (Total: 48)<br>JMP 2116 |

| | | |
|---|---|---|
| RO01 | Waseem Malik<br>Class time/details on ELMs | Seats (Total: 25)<br>ONLINE |

**ENPM672** **Fundamentals for Thermal Systems**

(Perm req)

*Prerequisite: Undergraduate engineering, physics or chemistry degree. Restriction: Permission of Maryland Applied Graduate Engineering.*

*Included in this course is an introduction to thermodynamics, fluid mechanics and heat transfer. Emphasis is on gaining an understanding of the physical concepts through the solving of numerical problems associated with simple thermal fluid processes and cycles. Both ideal gases and multiphase fluids will be considered as the working fluids.*

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|---|---|---|
| 0101 | Siddhartha Das<br>Tu 4:00pm - 6:40pm | Seats (Total: 17)<br>JMP 2120 |
| ME01 | Siddhartha Das<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM680** **Introduction to Secure Coding for Software Engineering**

*Credit only granted for: ENPM809W or ENPM680. Formerly: ENPM809W.*

*Covers core concepts and techniques to analyze and characterize such security bugs, and potential ways to mitigate them. Concepts will be introduced and discussed within the context of an adversary intent on altering or subverting the behavior of the software with security impacts.*

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|---|---|---|
| 0101 | Gananand Kini<br>M 1:00pm - 3:40pm | Seats (Total: 39)<br>JMP 2222 |
| SW01 | Gananand Kini<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM685** **Security Tools for Information Security**

*Prerequisite: Familiarity with Linux and Windows operating systems, as well as TCP/IP and basic networking concepts.*

*Students will perform host- and network-based security tasks relating to security, investigation, compliance verification and auditing using a wide selection of commonly used tools on both Windows and Linux platforms, with emphasis on open source tools.*

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|---|---|---|
| 0101 | Kevin Shivers<br>W 7:00pm - 9:40pm | Seats (Total: 48)<br>JMP 2116 |

| | | |
|---|---|---|
| CY01 | Kevin Shivers<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM687** **Digital Forensics and Incidence Responses**

*Prerequisite: Experience with both Windows and Unix-based operating systems, including using the command line.*

*Students will implement a robust incident response methodology, including proper forensic handling of evidence, and cover legal aspects of national and international law regarding forensics. The bulk of the course covers evidence acquisition, preservation, analysis and reporting on multiple platforms.*

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|---|---|---|
| 0101 | Ryan Kropff<br>M 4:00pm - 6:40pm | Seats (Total: 48)<br>JMP 2116 |
| 0201 | Ryan Kropff<br>M 1:00pm - 3:40pm | Seats (Total: 48)<br>JMP 2116 |
| CY01 | Jonas Amoonarquah<br>Class time/details on ELMs | Seats (Total: 75)<br>ONLINE |

**ENPM691** **Hacking of C programs and Unix Binaries**

(Perm req)

*Prerequisite: ENEE150 or equivalent.*

*Teaches the fundamentals of secure programming in C. An in depth discussion on various security vulnerabilities (e.g., buffer overflows) in C applications will be taught with hands-on demo of concepts during the class. Students will learn how a C program runs "under-the-hood". The course will teach nitty-gritty of C programs by analyzing at the assembly level. The course discusses best practices (e.g., coding standards) and design principles for secure programming so that security can be built-in during design time. In addition to assignments, students are required to present papers related to this course.*

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|---|---|---|
| 0201 | Wiehrs Collier<br>F 2:00pm - 4:40pm | Seats (Total: 75)<br>JMP 3201 |
| CY01 | Wiehrs Collier<br>Class time/details on ELMs | Seats (Total: 40)<br>ONLINE |

**ENPM694** **Networks and Protocols**

*Provides an in-depth review of the Internet with a focus on the end-to-end effects of technologies and protocols that operate in different layers. All protocols and technologies are covered in a holistic framework with an emphasis on their effect on the network and application performance. The course also includes a brief introduction of more modern concepts in the field of networking such as SDN and NFV to encourage deeper study of those topics.*

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|---|---|---|
| 0201 | Majid Raissi-Dehkordi<br>Tu 4:00pm - 6:40pm | Seats (Total: 75)<br>JMP 3201 |
| CY01 | Majid Raissi-Dehkordi<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM695** **Secure Operating Systems**

(Perm req)

*Prerequisite: ENPM691 and CMSC106; or permission of instructor. Restriction: Permission of Maryland Applied Graduate Engineering. Additional information: This course assumes knowledge of C programming and a previous operating systems class or knowledge in various issues such as process management, process synchronization, the critical section problem, CPU scheduling, memory management, secondary storage management.*

*Operating systems are the basic building block on which programmers build applications and on which security-minded professionals rely, whether they are monitoring activity on a computer, testing applications for security, or determining how malicious code affected their network. This course covers advanced topics in operating systems including process management and communication, remote procedure calls, memory management (including shared memory and virtual memory), checkpointing and recovery, file system, I/O subsystem and device management, distributed file systems and security. The course consists of reading and discussing research papers and includes a course project.*

| | | |
|---|---|---|
| 0101 | Ido Dubrawsky<br>Tu 4:00pm - 6:40pm | Seats (Total: 48)<br>JMP 2116 |
| CY01 | Ido Dubrawsky<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM696** **Reverse Software Engineering**

*Prerequisite: ENEE150 or equivalent. Recommended: Proficiency with using a *nix command line in a shell of their choice, e.g., Bash, Zsh, csh. Ability to create and manage virtual machines running intel-based Linux and Windows distributions.*

*An in-depth understanding of software reverse engineering concepts and hands-on training with reverse engineering tools, including disassemblers, decompilers, and code analyzers. Students will become familiar with both low-level software and the x86 instruction set through binary reversing sessions. This course also provides insights into many subjects such as system security, source code analysis, software design, and program understanding that will be beneficial in a variety of fields.*

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|---|---|---|
| 0101 | Allen Hazelton<br>W 4:00pm - 6:40pm | Seats (Total: 48)<br>JMP 2116 |

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|---|---|---|
| 0201 | Allen Hazelton<br>W 1:00pm - 3:40pm | Seats (Total: 48)<br>JMP 2116 |
| SW01 | Allen Hazelton<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM700** **Software Development for Robotics**

(Perm req)

*Prerequisite: ENPM702. Restriction: Permission of Maryland Applied Graduate Engineering. Credit only granted for: ENPM808X or ENPM700. Formerly: ENPM808X.*

*Teaches the tools and processes to develop professional quality software for deployed systems and products. Students will learn the best practices of taking new ideas or prototypes, and understanding what it takes to build the complex software that is so important to today's commercialized robotic systems.*

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|---|---|---|
| 0101 | Tommy Chang<br>Th 4:00pm - 6:40pm | Seats (Total: 48)<br>JMP 2116 |
| RO01 | Tommy Chang<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM702** **Introductory Robot Programming**

*Restriction: Permission of Maryland Applied Graduate Engineering. Credit only granted for: ENPM809Y or ENPM702. Formerly: ENPM809Y .*

*This hands-on course will introduce students to the C++ programming language and is specifically designed for students who have had little to no programming experience in their previous studies.*

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|---|---|---|
| 0101 | Zeid Kootbally<br>Tu 4:00pm - 6:40pm | Seats (Total: 39)<br>JMP 2121 |
| RO01 | Zeid Kootbally<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM703** **Fundamentals of AI and Deep Learning**

*Prerequisite: Linear algebra; Fundamentals of programming; Fundamentals of statistics. Credit only granted for: ENPM809K or ENPM703. Formerly: ENPM809K.*

*Fundamentals of machine learning techniques with a deep dive into cutting edge concepts that enabled neural networks to achieve state of the art performance in many visual, textual, and biomedical problems. Fundamental concepts like forward networks, convolution networks, recurrent neural networks, back propagation, loss functions, batch gradient descent, and stochastic optimization will be studied.*

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|---|---|---|
| 0101 | George Zaki<br>W 7:00pm - 9:40pm | Seats (Total: 39)<br>JMP 2222 |
| 0201 | George Zaki<br>Th 7:00pm - 9:40pm | Seats (Total: 75)<br>JMP 3201 |
| CY01 | George Zaki<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM808** **Advanced Topics in Engineering**

(Perm req)

*Advanced topics selected by the faculty for students in the professional master of engineering program. May be taken for repeated credit when identified by topic title.*

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|---|---|---|
| 0101 | George Syrmos<br>Contact instructor or department for details. | Seats (Total: 40) |

**ENPM808J** **Advanced Topics in Engineering; Design of Experiments**

*Advanced topics selected by the faculty for students in the professional master of engineering program. May be taken for repeated credit when identified by topic title.*

The course objective is to learn how to plan, design and conduct experiments efficiently and effectively, and analyze the resulting data to obtain objective conclusions. Both design and statistical analysis issues are discussed.

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|---|---|---|
| SY01 | Tony Barber<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM809F** **Special Topics in Engineering; Internet of Things**

*Special topics selected by the faculty for students in the professional master of engineering and graduate certificate in engineering program. May be taken for repeated credit when identified by topic title.*

This course covers the fundamental aspects of Internet of Things (IoT) including IoTarchitecture, network protocols, data management and access technologies, IoT security threats and technologies.

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|---|---|---|
| 0101 | Benjamin Greene<br>Tu 7:00pm - 9:40pm | Seats (Total: 29)<br>JMP 2116 |

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|---|---|---|
| DE01 | Benjamin Greene<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM818G** **Variable Topics in Engineering; Embedded Systems Hardware**

*Variable topics selected by the faculty for students in the professional master of engineering and graduate certificate in engineering program. May be taken for repeated credit when identified by topic title.*

Basics of logic designs leading to design of processors, memory, communication ports as well as multiprocessor systems enriched with design examples.

| | | |
|---|---|---|
| 0101 | Manoj Franklin<br>Tu 7:00pm - 9:40pm | Seats (Total: 17)<br>JMP 2120 |
| EB01 | Manoj Franklin<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM818M** **Variable Topics in Engineering; Introduction to Networking and Distributed Systems 5G/6G**

*Variable topics selected by the faculty for students in the professional master of engineering and graduate certificate in engineering program. May be taken for repeated credit when identified by topic title.*

Course includes basics of TCP/IP Stack, Applications Layers, Data Flow Layers, Data Encapsulation, Protocol Stack, Basic Network Terminology, Network Topology, ARP, BOOTP, DHCP, Local Area Network, Network Components, IPv4, ICMP, Transport Layer Protocols, Application Layer Protocols, Client/Server Models, Subnet/NAT, Routing, Switching, Basics of Distributed Systems, Wireless Protocols, 5G/6G, Edge, Cloud, Energy Consumptions. Course format includes lectures, homework, Quizzed, Two midterms, final project and exam. Course carries a perfect blend of theory and programming practices to prepare students for core network development and/or network architecture.

| | | |
|---|---|---|
| 0101 | Ashok Prajapati<br>M 4:00pm - 6:40pm | Seats (Total: 29)<br>JMP 2217 |
| EB01 | Ashok Prajapati<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM818N** **Variable Topics in Engineering; Cloud Computing**

*Variable topics selected by the faculty for students in the professional master of engineering and graduate certificate in engineering program. May be taken for repeated credit when identified by topic title.*

This course provides an in-depth exploration of cloud concepts, technologies, and applications. Students will learn about the fundamentals of cloud computing, its architecture, deployment models, and various services offered by major cloud providers. Practical hands-on exercises and real-world case studies will enable students to apply their knowledge to develop and deploy applications in the cloud. Overall, students will gain a comprehensive understanding of cloud computing concepts, technologies, and best practices, enabling them to design, implement, and manage applications and services in cloud environments.

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|---|---|---|
| 0101 | Everett Daviage<br>W 4:00pm - 6:40pm | Seats (Total: 52)<br>JMP 2121 |
| AEB1 | Everett Daviage<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM818P** **Variable Topics in Engineering; Linux System Administration**

*Variable topics selected by the faculty for students in the professional master of engineering and graduate certificate in engineering program. May be taken for repeated credit when identified by topic title.*

This course will provide an hand-ons experience with the installation, configuration and administration of Linux operating systems. Linux topics will include operating system architecture and components, task scheduling, memory and process management, device drivers, partitioning and file systems, boot processes, command line, customizing the environment,shell scripting, networking, and securing the system. The hands-on portion of the class will be an opportunity for the students to create and manage virtual machines, install Linux in virtual machines,work with the command line and various Linux tools to customize, administer and secure linux-based systems. The lab sessions will also cover launching Linux cloud instances as well. To summarize, students will acquire the technical knowledge to install, customize, manage and secure a system running a Linux Operating System

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|---|---|---|
| 0101 | Bertrand Sobesto<br>M 7:00pm - 9:40pm | Seats (Total: 52)<br>JMP 2121 |
| AEB1 | Bertrand Sobesto<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**ENPM818R** **Variable Topics in Engineering; Virtualization and Container Technologies**

*Variable topics selected by the faculty for students in the professional master of engineering and graduate certificate in engineering program. May be taken for repeated credit when identified by topic title.*

This course on virtualization and container technologies will cover a range of topics related to these two fundamental concepts in the field of IT and software development. This comprehensive course is designed to provide participants with an in-depth understanding of virtualization and container technologies, empowering them to architect and optimize modern IT infrastructures.

| | | |
|---|---|---|
| 0101 | Everett Daviage<br>Th 7:00pm - 9:40pm | Seats (Total: 52)<br>JMP 2121 |
| AEB1 | Everett Daviage<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

# ENRE Reliability Engineering Fall 2024

**ENRE489** **Special Topics in Reliability Engineering**

(Perm req)

*Selected topics of current importance in reliability engineering.*

**Contact department for information to register for this course.**

**ENRE600** **Fundamentals of Failure Mechanisms**

(Perm req)

*Restriction: Permission of ENGR-Mechanical Engineering. Cross-listed with: ENMA626. Credit only granted for: ENMA626, ENMA698M, ENMA698R, or ENRE600.*

*Advanced failure mechanisms in reliability engineering wiil be taught from a basic materials and defects point of view. The methods of predicting the physics of failure of devices, materials, components and systems are reviewed. The main emphasis will be given to basic degradation mechanisms through understanding the physics, chemistry, and mechanics of such mechanisms. Mechanical failures are introduced through understanding fatigue, creep and yielding in materials, devices and components. The principles of cumulative damage and mechanical yielding theory are taught. The concepts of reliability growth, accelerated life testing, environmental testing are introduced. Physical, chemical and thermal related failures are introduced through a basic understanding of degradation mechanisms such as diffusion, electromigration, defects and defect migration. The failure mechanisms in basic material types will be taught. Failure mechanisms observed in real electronic devices and electronic packaging will also be presented. Problems related to manufacturing, and microelectronics will be analyzed. Mechanical failures are emphasized from the point of view of complex fatigue theory.*

Sections that begin with a letter are taught via ITV and are not intended for College Park campus students.

| | | |
|---|---|---|
| 0101 | Aristos Christou<br>M 1:00pm - 3:40pm | Seats (Total: 29)<br>JMP 2217 |
| ER01 | Aristos Christou<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |
| RE01 | Aristos Christou<br>Class time/details on ELMs | Seats (Total: 4)<br>ONLINE |

**ENRE602** **Principles of Reliability Analysis**

*Principal methods of reliability analysis, including fault tree and reliability block diagrams; Failure Mode and Effects Analysis (FMEA); event tree construction and evaluation; reliability data collection and analysis; methods of modeling systems for reliability analysis. Focus on problems related to process industries, fossil-fueled power plant availability, and other systems of concern to engineers.*

Sections that begin with a letter are taught via ITV and are not intended for College Park campus students.

| | | |
|---|---|---|
| 0101 | Katrina Groth<br>W 1:00pm - 3:40pm | Seats (Total: 20)<br>JMP 2217 |
| ER01 | Katrina Groth<br>Class time/details on ELMs | Seats (Total: 15)<br>ONLINE |
| RE01 | Katrina Groth<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE |

**ENRE641** **Probabilistic Physics of Failure and Accelerated Testing**

*Models for life testing at constant stress. Graphical and analytical methods. Test plans for accelerated testing. Competing failure modes and size effects. Models and data analyses for step and time varying stresses. Optimizing of test plans.*

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|---|---|---|
| 0101 | Mohammad Modarres<br>W 12:00pm - 2:40pm | Seats (Total: 13)<br>JMP 2222 |
| ER01 | Mohammad Modarres<br>Class time/details on ELMs | Seats (Total: 15)<br>ONLINE |
| RE01 | Mohammad Modarres<br>Class time/details on ELMs | Seats (Total: 15)<br>ONLINE |

**ENRE645** **Human Reliability Analysis**

*Methods of solving practical human reliability problems, cognitive and behavioral modeling, task analysis, performance shaping factors, error classification, distribution of human performance and uncertainty bounds, sources of human error probability data, human error risk mitigation, examples and case studies.*

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|---|---|---|
| 0101 | Yunfei Zhao<br>Tu 9:00am - 11:40am | Seats (Total: 20)<br>JMP 2217 |
| ER01 | Yunfei Zhao<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE |

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|---|---|---|
| RE01 | Yunfei Zhao<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE |

**ENRE648** **Special Problems in Reliability Engineering**

(Perm req)

*For students who have definite plans for individual study of approved problems. Credit given according to extent of work.*

**Contact department for information to register for this course.**

**ENRE648E** **Special Problems in Reliability Engineering; Operations Research Models in Engineering**

*For students who have definite plans for individual study of approved problems. Credit given according to extent of work.*

Jointly offered with ENME741. Credit only granted for: ENME741 or ENRE648E.

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|---|---|---|
| 0101 | Steven Gabriel<br>Tu 9:30am - 12:00pm | Seats (Total: 15)<br>JMP 2120 |
| ER01 | Steven Gabriel<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE |
| RE01 | Steven Gabriel<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE |

**ENRE648J** **Special Problems in Reliability Engineering; Application of AI in Reliability: Prognostics and Systems Health Management (PHM)**

*For students who have definite plans for individual study of approved problems. Credit given according to extent of work.*

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|---|---|---|
| 0101 | Michael Azarian, Michael Pecht, Jay Lee<br>M 9:30am - 12:10pm | Seats (Total: 1)<br>Location: TBA |
| ER01 | Michael Azarian, Michael Pecht, Jay Lee<br>Class time/details on ELMs | Seats (Total: 1)<br>ONLINE |
| RE01 | Jay Lee, Michael Azarian, Michael Pecht<br>Class time/details on ELMs | Seats (Total: 1)<br>ONLINE |

**ENRE648M** **Special Problems in Reliability Engineering; Risk Analysis in Engineering and Economics**

*For students who have definite plans for individual study of approved problems. Credit given according to extent of work.*

Cross-listed with ENCE489L, ENCE620, and ENSE698R. Credit only granted for ENCE489L, ENCE620, ENRE648M, or ENSE698R.

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|---|---|---|
| 0101 | Bilal Ayyub<br>W 2:00pm - 4:40pm | Seats (Total: 20)<br>JMP 1109 |

**ENRE799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**ENRE898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**ENRE899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

## ENSE Systems Engineering Fall 2024

**ENSE621** **Systems Engineering Concepts and Processes: A Model-Based Approach**

(Perm req)

*Restriction: Permission of ENGR-Institute for Systems Research. Credit only granted for: ENPM641 or ENSE621.*

*An INCOSE-oriented introduction to model-based systems engineering. Provides an overview of systems engineering concepts, processes and methods, with a particular focus on: the development of stakeholder and system requirements; characteristics of well-written requirements; the use of SysML software tools to develop of system- and element-level architectures; and the relationship between requirements and architecture. Architecture-related topics include specification and visualization of system attributes, behavior, and interfaces. Other topics include acquisition and development life cycle models; operational concepts and use cases; requirements and design traceability; analysis, modeling and simulation; systems engineering management; risk management; configuration management; systems-of-systems; and system complexity. The course includes a class project in which teams of 3-5 students use SysML to develop stakeholder requirements, system requirements, and a logical system architecture for an engineered system of interest to them and then perform a design trade-off analysis for some aspect of the system.*

| | | |
|---|---|---|
| 0101 | Tony Barber<br>Tu 7:00pm - 9:40pm | Seats (Total: 22)<br>JMP 2222 |
| DE01 | Tony Barber<br>Class time/details on ELMs | Seats (Total: 15)<br>ONLINE |

**ENSE623** **System Development, Verification, and Validation**

(Perm req)

*Prerequisite: Permission of ENGR-Institute for Systems Research; and ENSE622. Credit only granted for: ENPM643 or ENSE623.*

*This course completes the ENSE621, ENSE622 sequence. It covers system simulation development and a variety of verification and validation topics. It addresses development testing and operational testing; test methodologies; the planning of test programs and Test and Evaluation Master Plans (TEMPs); the planning and execution of tests; and the writing of test plans and test reports. Topics include verification methods; specification-based testing; test verification matrices; model-based verification; model checking and other formal approaches to verification; design of experiments; performance testing; reliability testing; usability/human factors testing; and other types of testing. The course includes a class project in which teams of 3-5 students: develop requirements for a simulation that supports a system analysis of interest (the user need); develop the simulation (in MATLAB); verify that it meets its requirements; and validate that it may be used to support the analysis of interest.*

| | | |
|---|---|---|
| 0101 | Steven Biemer<br>Th 7:00pm - 9:40pm | Seats (Total: 17)<br>JMP 2120 |
| DE01 | Steven Biemer<br>Class time/details on ELMs | Seats (Total: 15)<br>ONLINE |

**ENSE626** **System Life Cycle Analysis and Risk Management**

(Perm req)

*Prerequisite: Permission of ENGR-Institute for Systems Research.*

*This course covers topics related to estimating the costs and risks incurred through the lifetimes of projects, products and systems. In addition, treatment is given to methods that determine the drivers of costs and risks and facilitate determination of the most effective alternatives to reducing them. Also covered, are relevant analytic tools from probability and statistics and also important managerial and organizational concepts. Extensive use is made of case studies and examples from industry and government.*

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|---|---|---|
| 0101 | Dane Cooper<br>M 7:00pm - 9:40pm | Seats (Total: 20)<br>JMP 2222 |
| DE01 | Dane Cooper<br>M 7:00pm - 9:40pm | Seats (Total: 15)<br>ONLINE |

**ENSE698R** **Special Topics in Systems Engineering; Risk Analysis in Engineering and Economics**

Cross-listed with ENCE489L, ENCE620, and ENRE648M. Credit only granted for ENCE489L, ENCE620, ENRE648M, or ENSE698R.

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|---|---|---|
| 0101 | Bilal Ayyub<br>W 2:00pm - 4:40pm | Seats (Total: 20)<br>JMP 1109 |

**ENSE699** **Directed Study in Systems Engineering**

(Perm req)

*Directed study in Systems Engineering.*

**Contact department for information to register for this course.**

**ENSE799** **Systems Engineering Thesis; Masters Thesis Research**

(Perm req)

*The application of systems engineering concepts, principles, and theories will be applied to the Master's Thesis project. Project/thesis work will be defined and selected early in student's program and supervised by a university faculty mentor.*

**Contact department for information to register for this course.**

# ENSP Environmental Science and Policy Fall 2024

**ENSP101** **Introduction to Environmental Science**

*One of two required courses that introduce students to the topics studied and methods employed in environmental science and policy. Emphasis on scientific ways of knowing; the systems, cycles, flows, and interfaces that characterize the atmosphere, lithosphere, hydrosphere, and biosphere; the analysis of human impacts on these systems; and the nature of scientific uncertainty and methods of quantifying environmental processes.*

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|---|---|---|---|
| 0101 | Annette Spivy<br>TuTh 11:00am - 12:15pm<br>Th 2:00pm - 2:50pm | Seats (Total: 25)<br>SHM 2102<br>SYM 0215 | Discussion |
| 0102 | Annette Spivy<br>TuTh 11:00am - 12:15pm<br>F 10:00am - 10:50am | Seats (Total: 24)<br>SHM 2102<br>EGR 3114 | Discussion |
| 0103 | Annette Spivy<br>TuTh 11:00am - 12:15pm<br>F 1:00pm - 1:50pm | Seats (Total: 24)<br>SHM 2102<br>EGR 2116 | Discussion |
| 0104 | Annette Spivy<br>TuTh 11:00am - 12:15pm<br>F 1:00pm - 1:50pm | Seats (Total: 24)<br>SHM 2102<br>CHE 2145 | Discussion |
| 0105 | Annette Spivy<br>TuTh 11:00am - 12:15pm<br>Th 2:00pm - 2:50pm | Seats (Total: 25)<br>SHM 2102<br>JMZ 0122 | Discussion |

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|---|---|---|---|
| 0106 | Annette Spivy<br>TuTh 11:00am - 12:15pm<br>F 10:00am - 10:50am | Seats (Total: 24)<br>SHM 2102<br>MTH 0407 | Discussion |
| 0107 | Annette Spivy<br>TuTh 11:00am - 12:15pm<br>F 11:00am - 11:50am | Seats (Total: 24)<br>SHM 2102<br>MTH 0104 | Discussion |
| FC01 | Annette Spivy<br>TuTh 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 32)<br>SYM 0215 | |

**ENSP203** **Perspectives in Environmental Justice**

*This course will explore campus based environmental justice related course offerings, local environmental justice initiatives, and employment opportunities that exist for students having an interest in environmental justice*

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|---|---|---|---|
| 0101 | Caroline Boules, Mark Carroll, Joanna Goger, Angela Mazur-Gray<br>**Meets September 4, 2024 - November 8, 2024**<br>W 4:00pm - 5:25pm | Seats (Total: 25)<br>PLS 1117 | |

**ENSP305** **Applied Spatial Analysis in Environmental Science and Policy**

(Perm req)

*Prerequisite: GEOG373; or permission of Environmental Science and Policy Program. Recommended: ENSP101 and ENSP102. Restriction: Must have earned a minimum of 60 credits; and permission of Environmental Science and Policy program.*

*Intended for students interested in pursuing career or graduate research opportunities that will include identifying/querying/processing environmental datasets, detailed spatial analysis of environmental data, and applications of predictive environmental modeling. Students will learn necessary skills to analyze and process environmental data through hands-on training in commonly used software and a series of topical case studies. Data analysis and data processing will be taught using publicly available real-world environmental data sets.*

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|---|---|---|---|
| 0101 | Annette Spivy<br>TuTh 5:00pm - 6:15pm | Seats (Total: 23)<br>ANS 0509 | |

**ENSP330** **Introduction to Environmental Law**

(Perm req)

*Recommended: ENSP101 and ENSP102. Restriction: Junior standing or higher. And must be a major in the Environmental Science and Policy program; or permission of Environmental Science and Policy program.*

*An overview of environmental law, from its common law roots to its role in the modern regulatory state, including an examination of major federal environment statutes and the policy debates inherent in them. Other areas covered include civil and criminal enforcement, standing to sue, land use control, and regulatory takings.*

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|---|---|---|
| 0101 | Joanna Goger | Seats (Total: 35) |
| | TuTh 11:00am - 12:15pm | ESJ 1309 |

**ENSP340** **Water: Science, Ethics, and Policy**

(Perm req)

*Recommended: ENSP101 and ENSP102. Restriction: Must have earned a minimum of 60 credits. And must be a major in the Environmental Science and Policy program; or permission of Environmental Science and Policy program.*

*Exploration of the science, policy, and ethical aspects of water resource protection and management. Focus on water pollution, water availability, ecosystems, and sustainability*

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|---|---|---|
| 0101 | Caroline Boules | Seats (Total: 25) |
| | TuTh 3:30pm - 4:45pm | EGR 0135 |

**ENSP360** **Every Drop Counts: Water, Food and Global Public Health**

*Prerequisite: ENSP101 or MIEH300; or permission of department. Cross-listed with: MIEH333. Credit only granted for: MIEH333 or ENSP360.*

*In-depth interdisciplinary study of the public health issues related to water use for global food production. Topics will include accessibility and availability of safe water for agriculture worldwide, potential microbiological and chemical hazards in agricultural water, alternative water sources such as reclaimed wastewater and return flows, food safety approaches to managing agricultural water, and agricultural influences on surface and groundwater quality. Political, social, and economic factors relating to agricultural water will be addressed, with special focus on regions that are leaders in innovative water management and regions where access to clean water for agriculture is a major challenge.*

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|---|---|---|
| 0101 | Leena Malayil | Seats (Total: 25) |
| | M 9:00am - 10:30am | ONLINE |

**ENSP386** **Internship**

(Perm req)

*Restriction: Must have internship proposal approved by the concentration advisor, the director of ENSP and the student's internship sponsor.*

**Contact department for information to register for this course.**

**ENSP399** **Special Topics in Environmental Science and Policy**

(Perm req)

*A substantive and specialized examination of contemporary issues in environmental science or policy.*

**Contact department for information to register for this course.**

**ENSP399N** **Special Topics in Environmental Science and Policy; Wildlife and Zoo Nutrition Management**

*A substantive and specialized examination of contemporary issues in environmental science or policy.*

Smithsonian's National Zoo and Conservation Biology Institute has one of the county s oldest zoo nutrition departments, created in the late 1970s, supporting an active research program and nutrition lab (conducting both clinical, zoo-based and field-based studies) and a clinical program with two nutritionists responsible for the dietary management of the zoo collection. This course will be taught by both nutritionists. We will introduce comparative animal nutrition as it applies to animals in general and their management in a captive setting, with considerations for understanding wild populations. Primary topics will include an overview of nutrients and energy, digestive systems and metabolism, nutritional ecology and requirements, philosophy of diet formulation in a captive setting, considerations for in situ and ex situ nutrition research, and some practical applications to wildlife management, among other related subject matter.

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|---|---|---|
| 0101 | Annette Spivy<br>W 2:00pm - 2:50pm | Seats (Total: 30)<br>ONLINE |

**ENSP399R** **Special Topics in Environmental Science and Policy; Research**

(Perm req)

*A substantive and specialized examination of contemporary issues in environmental science or policy.*

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|---|---|---|
| 0601 | Annette Spivy<br>Contact instructor or department for details. | Seats (Total: 10) |
| 1001 | Jennifer Mullinax<br>Contact instructor or department for details. | Seats (Total: 10) |

**ENSP400** **Capstone in Environmental Science and Policy**

(Perm req)

*Prerequisite: ENSP101; and ENSP102. Restriction: Must be in Environmental Science and Policy program; and senior standing; and permission of the Environmental Science and Policy Program.*

*Integration of physical, biological, and social sciences with applications to environmental science and policy. Problem-solving and multi-disciplinary case study evaluations pertinent to contemporary and future issues related to the environment.*

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|---|---|---|
| 0101 | Mark Carroll<br>TuTh 12:30pm - 1:45pm | Seats (Total: 35)<br>ESJ 1215 |
| 0102 | Joanna Goger<br>TuTh 12:30pm - 1:45pm | Seats (Total: 35)<br>ESJ 1215 |

**ENSP499** **Honors Thesis Research**

*Individual research, thesis, and oral defense. The research project will be conducted under the supervision of a faculty member.*

**Contact department for information to register for this course.**

# ENST Environmental Science and Technology Fall 2024

**ENST101** **Ecological Discovery and Natural Solutions**

*Credit only granted for: ENST499K or ENST101. Formerly: ENST499K.*

*The UMD Environmental Science and Technology (ENST) Department seeks to develop and apply scientific tools and processes to advance solutions to some of society's greatest environmental challenges. This seminar provides a unique and exciting opportunity to learn directly from faculty and researchers in the Department about what they study, teach, and share with society. Students will learn about the wide variety of research being conducted in the Department and how it relates to potential solutions to current environmental challenges. The course will cover research in the following areas: urban green spaces, aquaponics, bioenergy, wildlife management, aquatic toxicology, urban green spaces, wetland restoration, water resources, ecosystem health, soil chemistry, and more. It is anticipated that the course will include short visits to ENST laboratories and facilities. The course will also include information about academic, internship, and career opportunities related to ENST.*

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|---|---|---|
| 0101 | Jennifer Gunnulfsen<br>M 11:00am - 11:50am | Seats (Total: 60)<br>ANS 0408 |

**ENST200** **Fundamentals of Soil Science**

*Corequisite: CHEM131 and CHEM132; or permission of AGNR-Environmental Science & Technology department. Credit only granted for: ENST200 or NRSC200. Formerly: NRSC200.*

*Study and management of soils as natural bodies, media for plant growth, and ecosystem components. Morphology, composition, formation, and conservation of soils. Chemical, biological, and physical properties are discussed in relation to the production of plants, the functioning of hydrologic and nutrient cycles, the protection of environmental quality, and engineering uses of soils.*

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|---|---|---|---|
| 0101 | Raymond Weil<br>TuTh 3:30pm - 4:45pm<br>Tu 5:00pm - 7:50pm | Seats (Total: 22)<br>HJP 0226<br>HJP 0210 | <br><br>Lab |

| | | | |
|---|---|---|---|
| 0102 | Raymond Weil<br>TuTh 3:30pm - 4:45pm<br>W 5:00pm - 7:50pm | Seats (Total: 22)<br>HJP 0226<br>HJP 0210 | <br><br>Lab |
| 0103 | Raymond Weil<br>TuTh 3:30pm - 4:45pm<br>Th 5:00pm - 7:50pm | Seats (Total: 22)<br>HJP 0226<br>HJP 0210 | <br><br>Lab |
| 0104 | Raymond Weil<br>TuTh 3:30pm - 4:45pm<br>Tu 9:30am - 12:20pm | Seats (Total: 22)<br>HJP 0226<br>HJP 0210 | <br><br>Lab |

**ENST215** **Bats in Society: Human-Wildlife Relationships, Conflicts, & Solutions**

*Additional information: Students should expect to spend 1-3 hours across multiple nights deploying bat detectors (which will be provided by the instructor) at a location of their choosing. Safety protocols will be discussed and implemented.*

*How might an understanding of human-wildlife conflicts shape our approach to disease, ecology, and conservation? Should we care that we are losing wildlife, like bats? Across the globe, human societies have significantly harmed bat populations both intentionally and unintentionally. This course will delve into different bat population crisis causes as well as current and potential solutions, while addressing complex human-wildlife conflicts that need to be considered while solving them. During the course, students will get hands-on experience using highly sophisticated bat acoustic technology to identify bats to species-level. Lecture and discussion sections will focus on bat ecology, management techniques, newest bat identification techniques, data interpretation, and scientific presentation skills.*

Restricted to students in Carillon Communities. Once registered, students need an electronic stamp from an advisor to drop the course.

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|---|---|---|---|
| 0101 | Shannon Browne<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>ANS 0538 | |

**ENST233** **Introduction to Environmental Health**

*Examines how humans are affected by the quality of our air, water, soil and food supply as well as how human activities alter these survival necessities. Students will learn how the evolution and prosperity of human populations have resulted in degradation of our environment and the impact of environmental degradation on the health of people. The implications of individual and collective choices for sustainable food production, population management, and resource utilization will be explored.*

| | | | |
|---|---|---|---|
| 0101 | Lance Yonkos, Jennifer Gunnulfsen<br>TuTh 9:30am - 10:45am<br>M 3:00pm - 3:50pm | Seats (Total: 22)<br>ANS 0408<br>ANS 0538 | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 0103 | Lance Yonkos, Jennifer Gunnulfsen<br>TuTh 9:30am - 10:45am<br>M 4:00pm - 4:50pm | Seats (Total: 22)<br>ANS 0408<br>ANS 0538 | <br><br>Discussion |
| 0104 | Lance Yonkos, Jennifer Gunnulfsen<br>TuTh 9:30am - 10:45am<br>W 4:00pm - 4:50pm | Seats (Total: 22)<br>ANS 0408<br>ANS 0538 | <br><br>Discussion |

**ENST281** **Computer Aided Design in Ecology**

*Basics of Computer Aided Drawing (CAD) applied to design of constructed ecosystems. Use of campus stormwater wetland as case study.*

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|---|---|---|---|
| 0101 | Jose-Luis Izursa<br>M 2:00pm - 2:50pm<br>M 3:00pm - 5:00pm | Seats (Total: 20)<br>ANS 0422<br>ANS 0509 | <br><br>Lab |
| 0102 | Jose-Luis Izursa<br>M 2:00pm - 2:50pm<br>W 3:00pm - 5:00pm | Seats (Total: 20)<br>ANS 0422<br>ANS 0509 | <br><br>Lab |

**ENST282** **Ecological Innovation and Entrepreneurship**

*Ecotechnology innovation is taught with design thinking, which uses an iterative cycle of developing customer empathy, learning ecological technology, appreciating environmental stewardship, brainstorming, rapid prototyping, user experience, testing and redesign. Environment entrepreneurship is based on the Lean Startup process, which uses customer discovery, encourages quick product development, reduces start-up costs, tests ideas quickly, and employs designed experiments. A multidisciplinary academic setting embraces designing, building, testing and marketing novel technologies that enhance the environmental needs of humans. Students will learn in an active environment that requires working creatively, collaboratively, diligently, and precisely to create a business model and tangible prototype for a new commercial product.*

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|---|---|---|---|
| 0101 | David Tilley<br>MWF 10:00am - 10:50am | Seats (Total: 20)<br>ANS 0422 | |

**ENST301** **Field Soil Morphology I**

(Perm req)

*Restriction: Permission of AGNR-Environmental Science & Technology department. Formerly: ENST308.*

*This is a field-oriented course that introduces students to the techniques used to (1) describe soil morphology, and site and profile characteristics, (2) make land use interpretations based on soil characteristics, and (3) classify soils. This class is designed to prepare students for the Regional Collegiate Soil Judging Contest and for students to gain experience in the description and interpretation of soils in the field.*

| | | |
|---|---|---|
| 0101 | Brian Needelman | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**ENST302** **Field Soil Morphology II**

(Perm req)

*Prerequisite: ENST301. Restriction: Permission of AGNR-Environmental Science & Technology department.*

*This is the second field-oriented course in a three course sequence that provides intermediate training for students in the techniques used to (1) describe soil morphology, and site and profile characteristics, (2) make land use interpretations based on soil characteristics, and (3) classify soils. This class is designed to prepare students for the Regional Collegiate Soil Judging Contest and for students to gain experience in the description and interpretation of soils in the field.*

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|---|---|---|
| 0101 | Brian Needelman | Seats (Total: 7) |
| | Contact instructor or department for details. | |

**ENST303** **Field Soil Morphology III**

(Perm req)

*Prerequisite: ENST302. Restriction: Permission of AGNR-Environmental Science & Technology department.*

*This is the third field-oriented course in a three course sequence that provides intermediate training for students in the techniques used to (1) describe soil morphology, and site and profile characteristics, (2) make land use interpretations based on soil characteristics, and (3) classify soils. This class is designed to prepare students for the Regional Collegiate Soil Judging Contest and for students to gain experience in the description and interpretation of soils in the field.*

| | | |
|---|---|---|
| 0101 | Brian Needelman | Seats (Total: 15) |
| | Contact instructor or department for details. | |

**ENST333** **Ecosystem Health and Protection**

*Prerequisite: ENST233 or permission of instructor.*

*Discussion of the philosophies, principles, and practices for assessing ecosystem health with emphasis on an ecosystem perspective rather than a human health perspective. Degradation associated with human activities will be emphasized. Topics will range from local to regional to global issues, including a discussion on global warming and its possible impacts on ecosystems. Concepts will be clarified using case histories from the Chesapeake Bay watershed.*

| | | | |
|---|---|---|---|
| 0101 | Jennifer Gunnulfsen<br>TuTh 11:00am - 12:15pm | Seats (Total: 45)<br>ANS 0422 | |

**ENST360** **Ecosystem Ecology**

*Prerequisite: BSCI160 and BSCI161; or BSCI106. Restriction: Must be in the Environmental Science and Technology major; or permission of instructor.*

*The study of ecology has a long and interesting history, from early society's efforts to understand and alter their environment as a matter of survival to the challenges the modern world is facing that are global in scale. Through the course text, distributed supplemental chapter readings and an understanding of the scientific literature, this course will cover the essential concepts and principles of ecosystem ecology as well as its history and past and present controversies. Several of the basic methods and tools of field research and the applied management of ecosystems will be discussed and demonstrated with several field excursions in the natural environs of the DC area. Central to this course will be the understanding that modern human society is an integral part of nature, with the power to impact and influence elements of the natural world at multiple scales. An analysis of policy implications for the biosphere will be discussed.*

The study of ecology has a long and interesting history, from early society's efforts to understand and alter their environment as a matter of survival to the challenges the modern world is facing that are global in scale. Through the course text, distributed supplemental chapter readings and an understanding of the scientific literature, this course will cover the essential concepts and principles of ecosystem ecology as well as its history and past and present controversies. Several of the basic methods and tools of field research and the applied management of ecosystems will be discussed and demonstrated with several field excursions in the natural environs of the DC area. Central to this course will be the understanding that modern human society is an integral part of nature, with the power to impact and influence elements of the natural world at multiple scales. An analysis of policy implications for the biosphere will be discussed.

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|---|---|---|---|
| 0101 | Mitchell Pavao-Zuckerman<br>TuTh 2:00pm - 3:15pm<br>M 1:00pm - 1:50pm | Seats (Total: 20)<br>ANS 0422<br>ANS 0422 | <br><br>Discussion |
| 0102 | Mitchell Pavao-Zuckerman<br>TuTh 2:00pm - 3:15pm<br>F 2:00pm - 2:50pm | Seats (Total: 20)<br>ANS 0422<br>ANS 0422 | <br><br>Discussion |

**ENST388** **Honors Thesis Research**

(Perm req)

*Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.*

Restriction: Permission of AGNR-Environmental Science & Technology department. Repeatable to 6 credits if content differs. Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.

**Contact department for information to register for this course.**

**ENST389** **Internship**

(Perm req)

*Credit will be granted for practical work carried out by students placed in work environment related to their stated career goals. Students must do an in-depth study in some portion of the work experience and produce a special project or report related to this study. A student work log is also recommended. An evaluation from the external supervisor of the project will be required. Credit arranged with supervising faculty member.*

| | | |
|---|---|---|
| 0101 | Jose-Luis Izursa | Seats (Total: 50) |
| | Contact instructor or department for details. | |

**ENST403** **Invasive Species Ecology**

*Credit only granted for: ENST403, ENST603, or ENST689R.*

*We will examine ecological, evolutionary, and anthropogenic processes facilitating or resisting biological invasions, and consider their environmental, economic, and human health impacts. We will consider various management strategies to mitigate invasions and identify areas of future research. Field trips and detailed discussion of recent findings and controversies in the literature will help illustrate fundamental concepts of invasions among various ecosystems.*

| | | |
|---|---|---|
| 0101 | Peter May | Seats (Total: 30) |
| | MWF 10:00am - 10:50am | ANS 0538 |

**ENST411** **Principles of Soil Fertility**

*Prerequisite: ENST200; or students who have taken courses with comparable content may contact the department. Jointly offered with ENS T611. Credit only granted for: ENST411 or NRSC411. Formerly: NRS C411.*

*Soil factors affecting plant growth and quality with emphasis on the bio-availability of mineral nutrients. The management of soil systems to enhance plant growth by means of crop rotations, microbial activities, and use of organic and inorganic amendments.*

| | | |
|---|---|---|
| 0101 | Raymond Weil | Seats (Total: 20) |
| | TuTh 12:30pm - 1:45pm | ANS 1422 |

**ENST414** **Soil Morphology, Genesis and Classification**

*Prerequisite: Must have completed or be concurrently enrolled in ENST200.*

*Processes and factors of soil genesis. Taxonomy of soils of the world by U.S. System. Soil morphological characteristics, composition, classification, survey and field trips to examine and describe soils.*

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|---|---|---|---|
| 0101 | Brian Needelman | Seats (Total: 20) | |
| | MW 10:00am - 10:50am | PHY 4222 | |
| | M 5:00pm - 5:50pm | HJP 0210 | |
| | M 2:00pm - 5:00pm | HJP 0210 | Lab |

**ENST415** **Renewable Energy**

*Prerequisite: CHEM131, PHYS121, and MATH113; or permission of AGNR-Environmental Science & Technology department.*

*An overview of renewable energy technologies and their current applications. Emphasis will be placed on technological readiness, efficiency and sustainability of renewable energy alternatives. Technologies include solar thermal, photovoltaics, biodiesel, ethanol, anaerobic digestion, wind, hydroelectric, and microbial fuel cells.*

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|---|---|---|
| 0101 | Elizabeth Thilmany | Seats (Total: 40) |
| | MWF 11:00am - 11:50am | ANS 0422 |

**ENST417** **Soil Hydrology and Physics**

*Prerequisite: ENST200; and (MATH113 or MATH115).*

*A study of soil water interactions: the hydrologic cycle; the unique properties of water and soil; the soil components and their interactions; the field water cycle; transport processes involving water, heat and solutes; human effects on soil and groundwater; as well as the measurement, prediction, and control of the physical processes taking place in and through the soil.*

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|---|---|---|
| 0101 | Robert Hill | Seats (Total: 35) |
| | TuTh 11:00am - 12:15pm | ANS 0412 |

**ENST432** **Environmental Microbiology**

*Prerequisite: CHEM131 and CHEM132.*

*Microorganisms are everywhere and mediate many of the processes that we observe everyday. These organisms are the unseen catalysts for numerous industrial processes and are critical to many emerging technologies and novel products. Environmental microbiologists ask: How do microorganisms in the environment benefit society? This course will answer this question by examining microbes in bioremediation, food safety, climate change, and biotechnology.*

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|---|---|---|
| 0101 | Stephanie Yarwood | Seats (Total: 30) |
| | TuTh 2:00pm - 3:15pm | JMP 1109 |

**ENST441** **Sustainable Agriculture**

*Environmental, social and economic needs for alternatives to the conventional, high-input farming systems which currently predominate in industrial countries. Strategies and practices that minimize the use of non-renewable resources.*

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|---|---|---|
| 0101 | Raymond Weil | Seats (Total: 40) |
| | TuTh 9:30am - 10:45am | ANS 0422 |

**ENST450** **Wetland Ecology**

*Prerequisite: BIOM301 and ENST360, or equivalent courses in data analysis and ecology; or permission of AGNR-Environmental Science & Technology department. Jointly offered with: ENST650. Credit only granted for: ENST450, ENST650, or MEES650.*

*Plant and animal communities, biogeochemistry, and ecosystem properties of wetlands. Lectures are supplemented by field trips and in-class labs. Hands-on activities include identification of wetland plant species, wetland delineation, and collection and analysis of field data on wetland vegetation, soil, and hydrology. Wading boots (at least hip length) are strongly recommended.*

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|---|---|---|
| 0101 | Andrew Baldwin | Seats (Total: 29) |
| | TuTh 2:00pm - 3:15pm | ANS 0538 |

**ENST460** **Principles of Wildlife Management**

*Prerequisite: Must have completed two semesters of biology laboratory; and (ENST360; or BSCI361). Or permission of AGNR-Environmental Science & Technology department.*

*Ecological principles and requirements of wildlife as basis for management, and introduction to the scientific literature. Conflicts in wildlife management, government administration of wildlife resources, legislation, and history of the wildlife management profession.*

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|---|---|---|
| 0101 | Jennifer Mullinax | Seats (Total: 40) |
| | TuTh 12:30pm - 1:45pm | ANS 0412 |

**ENST472** **Capstone**

(Perm req)

*Restriction: Must be in a major within AGNR-Environmental Science & Technology department; and permission of AGNR-Environmental Science & Technology department. Additional information: This is the pinnacle course for students majoring in ENST and is therefore recommended in one of the students' final semesters.*

*This capstone course focuses on professional project preparation, presentation, and critical evaluation on environmental science research. Students will develop and present original projects and critique projects presented by others.*

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|---|---|---|
| 1201 | Andrew Baldwin | Seats (Total: 10) |
| | Contact instructor or department for details. | |

| | | |
|---|---|---|
| 1205 | William Bowerman<br>Contact instructor or department for details. | Seats (Total: 15) |
| 1401 | Frank Coale<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1501 | Gary Felton<br>Contact instructor or department for details. | Seats (Total: 10) |
| 1508 | Reginal Harrell<br>Contact instructor or department for details. | Seats (Total: 10) |
| 1601 | Robert Hill<br>Contact instructor or department for details. | Seats (Total: 10) |
| 1801 | Patrick Kangas<br>Contact instructor or department for details. | Seats (Total: 10) |
| 1802 | Stephanie Lansing<br>Contact instructor or department for details. | Seats (Total: 10) |
| 1803 | Paul Leisnham<br>Contact instructor or department for details. | Seats (Total: 10) |
| 2005 | Jennifer Mullinax<br>Contact instructor or department for details. | Seats (Total: 10) |
| 2101 | Brian Needelman<br>Contact instructor or department for details. | Seats (Total: 10) |
| 2102 | Masoud Negahban-Azar<br>Contact instructor or department for details. | Seats (Total: 10) |
| 2103 | Mitchell Pavao-Zuckerman<br>Contact instructor or department for details. | Seats (Total: 10) |
| 2104 | Shannon Browne<br>Contact instructor or department for details. | Seats (Total: 10) |
| 2105 | Wendy Peer<br>Contact instructor or department for details. | Seats (Total: 10) |
| 2201 | Martin Rabenhorst<br>Contact instructor or department for details. | Seats (Total: 10) |

| | | |
|---|---|---|
| 2601 | David Tilley<br>Contact instructor or department for details. | Seats (Total: 10) |
| 2701 | Raymond Weil<br>Contact instructor or department for details. | Seats (Total: 10) |
| 2804 | Jose-Luis Izursa<br>Contact instructor or department for details. | Seats (Total: 10) |
| 2805 | Gurpal Toor<br>Contact instructor or department for details. | Seats (Total: 10) |
| 2905 | Stephanie Yarwood<br>Contact instructor or department for details. | Seats (Total: 10) |
| 3001 | Lance Yonkos<br>Contact instructor or department for details. | Seats (Total: 10) |
| 3201 | Peter May<br>Contact instructor or department for details. | Seats (Total: 10) |
| 3202 | Candice Duncan<br>Contact instructor or department for details. | Seats (Total: 5) |
| 3301 | Adel Shirmohammadi<br>Contact instructor or department for details. | Seats (Total: 4) |
| 3401 | Jared Wilmoth<br>Contact instructor or department for details. | Seats (Total: 10) |
| 3601 | Henry Gallo<br>Contact instructor or department for details. | Seats (Total: 10) |

**ENST485** **Water Management in Urban Environment**

*Prerequisite: MATH120, MATH130, MATH136, or MATH140.*

*Historically, with the exception of certain locations, water has been available in sufficient quantities, and providing supporting infrastructure has been relatively straightforward. In urban areas, the concentration of people and the drastic changes in land use, have altered the fluxes of water, sediments, chemicals, and microorganisms. As the population increases and the number of large urban areas keeps growing (both in U.S. and internationally), managing water in urban areas is becoming more challenging. Water must be supplied for domestic, commercial, and industrial use, as well as irrigation and maintaining and enhancing local environments (e.g., urban streams). In addition, stormwater must be managed to prevent flooding and environmental damage, and used water, which contains organic matter, nutrients, and other constituents that can be extracted and reused, must be collected and managed. In this course we take a systems approach to urban water hydrology, engineering, planning and management. We will explore urban water cycle, urban runoff and drainage characteristics, urban water supply and demand, stormwater collection and treatment and designing best management practices. Additionally, we look at the climate impacts on the urban water cycle.*

| | | |
|---|---|---|
| 0101 | Priscila Alves | Seats (Total: 40) |
| | TuTh 12:30pm - 1:45pm | ANS 0422 |

**ENST486** **Senior Professional Experience**

(Perm req)

*Prerequisite: ENST389. Restriction: Must be in the Environmental Science and Technology program; and permission of AGNR-Environmental Science & Technology department. Additional information: The course has two types of activities: lecture and experiential learning. Students are expected to work on their professional-level experience for 90 hours and participate in a 2-hour lecture every other week, during the semester to develop their Senior Integrative Experience (SIE) project. Each student's research question, proposal methodology, analysis, paper, and presentation will follow learning outcomes of all ENST SIE course options.*

*Students will arrange an off-campus professional-level work experience related to Environmental Science and Technology (ENST) to develop expertise in a specific area of their ENST concentration curriculum. Classroom sessions will frame student experiences within the broader discipline of Environmental Science and Technology. This course will tie together current practices in the ENST career industry, proposal writing, critical analysis, and culminate in a final paper and presentation.*

| | | |
|---|---|---|
| 0101 | Jose-Luis Izursa | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**ENST489** **Research Experience**

(Perm req)

*An advanced research-based course in the field of environmental science and technology.*

**Contact department for information to register for this course.**

**ENST499** **Special Topics in Environmental Science and Technology**

(Perm req)

*An independent study, and/or lecture, and/or laboratory series organized to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.*

**Contact department for information to register for this course.**

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**ENST499A** **Special Topics in Environmental Science and Technology; Urban Ecology**

*An independent study, and/or lecture, and/or laboratory series organized to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.*

Prerequisite: BSCI160 and BSCI161. Urban Ecology is an interdisciplinary subject at the intersection of social, environmental, and economic systems. This course will examine ecology in the city (i.e. why do certain species live in certain greenspaces?), ecology of the city (e.g. how do urban ecological processes influence the health and safety of human residents?), and ecology for the city (i.e. how do we plan and restore greenspaces in a just way so that all residents have equitable access to nature?). This course will have a strong focus on natural systems within urban ecosystems. Each topic willfocus on key urban ecological concepts and then explore how these topicsapply to urban planning and design. The course will be a mix of traditional lectures and a few field trips to see urban ecology in action in Washington, D.C.

| | | |
|---|---|---|
| 0101 | Henry Gallo | Seats (Total: 40) |
| | TuTh 3:30pm - 4:45pm | SPH 0302 |

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**ENST499E** **Special Topics in Environmental Science and Technology; Artificial Intelligence for the Environment**

*An independent study, and/or lecture, and/or laboratory series organized to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.*

The course is designed to help students that are interested in environmental disciplines understand how the latest generative artificial intelligence (gen-AI) technologies, like Chat GPT-x and othernatural language learning models, can be used to protect and improve ourenvironment and help them discover roles they can pursue as aperson concerned about the environment and as an environmental professional. Through this course, you will gain an appreciation for thepower of gen-AI to make a real difference for our planet. You will explore how the latest gen-AI tools can be applied to tackle environmental topics, like climate change, green cities, ecological restoration, environmentalcompliance and wildlife conservation. This course is perfect for freshmen and sophomores, but is open to all, especially students lookingto explore application for gen-AI.

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|---|---|---|
| 0101 | David Tilley | Seats (Total: 30) |
| | MWF 1:00pm - 1:50pm | ANS 0538 |

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**ENST499X** **Special Topics in Environmental Science and Technology; Soil Science**

(Perm req)

*An independent study, and/or lecture, and/or laboratory series organized to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.*

Contact department for information to regsiter for this course.

| | | | |
|---|---|---|---|
| 0101 | Raymond Weil | Seats (Total: 5) | |
| | Contact instructor or department for details. | | |

**ENST499Y** **Special Topics in Environmental Science and Technology; College Teaching**

(Perm req)

*An independent study, and/or lecture, and/or laboratory series organized to study a selected phase of Environmental Science and Technology not covered by existing courses. Credit arranged with supervising faculty member.*

| | | | |
|---|---|---|---|
| 0101 | Eni Baballari | Seats (Total: 10) | |
| | Contact instructor or department for details. | | |

**ENST602** **Research Principles and Methodology in Environmental Scienceand Technolgy**

(Perm req)

*Restriction: Must be in Environmental Sci & Tech program.*

*Fundamental research strategies and methods of investigation in Environmental Science and Technology including field and laboratory procedures.*

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|---|---|---|---|
| 0101 | Jennifer Mullinax | Seats (Total: 15) | |
| | TuTh 11:00am - 12:15pm | ANS 1422 | |

**ENST603** **Advanced Invasive Species Ecology**

*Jointly offered with ENST403. Credit only granted for: ENST403, ENST603 , or ENST689R. Formerly: ENST689R. Additional information: Two field trips are planned for this class.*

*We will examine ecological, evolutionary, and anthropogenic processes facilitating or resisting biological invasions, and consider their environmental, economic, and human health impacts. We will consider various management strategies to mitigate invasions and identify areas of future research. Field trips and detailed discussion of recent findings and controversies in the literature will help illustrate fundamental concepts of invasions among various ecosystems.*

| | | | |
|---|---|---|---|
| 0101 | Peter May | Seats (Total: 5) | |
| | MWF 10:00am - 10:50am | ANS 0538 | |
| | F 11:00am - 11:50am | ANS 0538 | Discussion |

**ENST606** **Advanced Ecosystem Health and Natural Resource Management**

(Perm req)

*Restriction: Permission of AGNR-Environmental Science & Technology department. Credit only granted for: ENST606 or ENST689E. Formerly: ENST689E. Additional information: Priority in enrollment will be given to students in ENST program.*

*Explore some of the most important and current global environmental and health challenges. Investigate fundamental and new concepts from the fields of ecology, eco-epidemiology, social anthropology, and environmental and health policy, as well as interdisciplinary cross-sectorial approaches such as One Health, Eco-Health, and Planetary Health.*

| | | |
|---|---|---|
| 0101 | Paul Leisnham | Seats (Total: 20) |
| | TuTh 12:30pm - 1:45pm | ANS 1420 |

**ENST608** **Research Methods**

(Perm req)

*Development of research viewpoint by detailed study and report on crop and soil research of the Maryland Agriculture Experiment Station or review and discussion of literature on specific agricultural problems or new research techniques.*

**Contact department for information to register for this course.**

**ENST611** **Advanced Principles of Soil Fertility**

*Prerequisite: ENST200; or students who have taken courses with comparable content may contact the department. Jointly offered with: ENST411. Credit only granted for: ENST411 or ENST611.*

*Soil factors affecting plant growth and quality with emphasis on the bio-availability of mineral nutrients. The management of soil systems to enhance plant growth by means of crop rotations, microbial activities, and use of organic and inorganic amendments.*

| | | |
|---|---|---|
| 0101 | Raymond Weil | Seats (Total: 10) |
| | TuTh 12:30pm - 1:45pm | ANS 1422 |

**ENST650** **Advanced Wetland Ecology**

*Prerequisite: BIOM301; and ENST360 or other ecology equivalent; or permission of AGNR-Environmental Science and Technology department; or permission of CMNS-Marine & Estuarine-Environmental Science Program). Cross-listed with: MEES650. Jointly offered with: ENST450, MEES650. Credit only granted for: ENST450, ENST650, or MEES650. Additional information: Wading boots (at least hip length) are strongly recommended.*

*Plant and animal communities, biogeochemistry, and ecosystem properties of wetlands. Lectures are supplemented by field trips (normally 2 days total during the semester) and in-class labs. Hands-on activities and exercises include identification of wetland plant species, wetland mapping and delineation, and collection and analysis of field data on wetland vegetation, soil, and hydrology. Wading boots (at least hip length) are strongly recommended.*

| | | |
|---|---|---|
| 0101 | Andrew Baldwin | Seats (Total: 5) |
| | TuTh 2:00pm - 3:15pm | ANS 0538 |

**ENST689** **Special Topics**

*Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.*

| | | |
|---|---|---|
| 1201 | Andrew Baldwin<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1205 | William Bowerman<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1401 | Frank Coale<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1501 | Gary Felton<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1508 | Reginal Harrell<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1601 | Robert Hill<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1801 | Patrick Kangas<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1802 | Stephanie Lansing<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1803 | Paul Leisnham<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1805 | Michael Kearney<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2001 | Bahram Momen<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2005 | Jennifer Mullinax<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2101 | Brian Needelman<br>Contact instructor or department for details. | Seats (Total: 5) |

| | | |
|---|---|---|
| 2102 | Masoud Negahban-Azar<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2103 | Mitchell Pavao-Zuckerman<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2105 | Wendy Peer<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2201 | Martin Rabenhorst<br>Contact instructor or department for details. | Seats (Total: 3) |
| 2601 | David Tilley<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2701 | Raymond Weil<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2805 | Gurpal Toor<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2905 | Stephanie Yarwood<br>Contact instructor or department for details. | Seats (Total: 5) |
| 3001 | Lance Yonkos<br>Contact instructor or department for details. | Seats (Total: 2) |
| 3401 | Jared Wilmoth<br>Contact instructor or department for details. | Seats (Total: 10) |
| 3601 | Henry Gallo<br>Contact instructor or department for details. | Seats (Total: 10) |

**ENST689M** **Special Topics; Advanced Soil Chemistry**

*Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.*

Advanced examination of modern and emerging topics in Soil Chemistry. The course will focus on the most current ideas and cutting-edge techniques to understand how key soil chemical mechanisms and pathways are linked to large-scale phenomena such as climate change, food security, sustainability, nutrient cycling, and pollution.

| | | |
|---|---|---|
| 0101 | Jared Wilmoth<br>TuTh 9:30am - 10:45am | Seats (Total: 10)<br>ANS 1422 |

**ENST689X** **Special Topics; Methods in University Teaching**

(Perm req)

*Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.*

| | | |
|---|---|---|
| 0101 | Raymond Weil | Seats (Total: 1) |
| | Contact instructor or department for details. | |

**ENST689Y** **Special Topics; Advances in Research, Plant Membrane Biology**

*Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.*

| | | |
|---|---|---|
| 0101 | Wendy Peer | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**ENST689Z** **Special Topics; Introductory University Instruction**

*Credit according to time scheduled and organization of the course. Organized as a lecture series on a specialized advanced topic.*

**Contact department for information to register for this course.**

**ENST761** **Methods in Pedological Investigations**

*Prerequisite: ENST414; or permission of AGNR-Environmental Science & Technology department.*

*This is designed to equip students with analytical tools for soil microfabric and mineralogical analysis in order to understand soil properties and processes. A number of techniques will be discussed, but emphasis will be placed on micromorphology and x-ray diffractometry. Both theoretical and applied considerations will be convered, and students will gain substantial hands on experience in collecting and interpreting data germane to their research interests.*

| | | | |
|---|---|---|---|
| 0101 | Martin Rabenhorst | Seats (Total: 10) | |
| | MW 8:00am - 8:50am | ANS 0422 | |
| | MW 9:00am - 11:50am | HJP 0210 | Lab |

**ENST789** **Advances in Research**

*A study of recent advances in agronomy research.*

**Contact department for information to register for this course.**

**ENST798** **Graduate Seminar**

(Perm req)

*Designed to provide a venue for interactive discussion between ENST graduate students and other members of the ENST community regarding thesis/dissertation research planned or conducted as part of the students graduate program.*

Restriction: Must be in one of the following programs (Environmental Science and Technology (Doctoral); Environmental Science and Technology (Master's)); or permission of AGNR-Environmental Science & Technology department.

| | | |
|---|---|---|
| 0101 | Henry Gallo, Jared Wilmoth<br>W 3:00pm - 3:50pm | Seats (Total: 40)<br>ANS 0408 |

**ENST799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**ENST898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**ENST899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# ENTM Entomology Fall 2024

**ENTM699K** **Advanced Entomology; Biological Sciences Teaching and Learning in Higher Education**

(Perm req)

*Credit and prerequisites to be determined by the department. First and second semesters. Studies of minor problems in morphology, physiology, taxonomy and applied entomology, with particular reference to the preparation of the student for individual research.*

Cross-listed with BIOL608K, CBMG699K, and CHEM608K. Credit will be grant edfor only one of the following: BIOL608K, CBMG699K, CHEM608K, or ENTM699K.

| | | |
|---|---|---|
| 0101 | Gili Ad-Marbach<br>W 11:00am - 12:40pm | Seats (Total: 12)<br>BPS 1208 |

**ENTM701** **Teaching & Professional Development in Biology**

*Cross-listed with: BISI701. Credit only granted for: ENTM701, BISI688Z, CBMG688Z, or BIOL701. Formerly: BISI688Z, CBMG688Z, BIOL701. Additional information: Priority enrollment will be given to students in the BISI Graduate Program.*

*Provides graduate students in the biological sciences with the foundational knowledge to become better teaching assistants and gives them an introduction into the skills and tools that they need to develop as professional scientists and educators.*

| | | |
|---|---|---|
| 0101 | Wade Winkler<br>Tu 6:00pm - 8:00pm | Seats (Total: 20)<br>BPS 1238 |
| 0201 | Leslie Pick<br>Tu 6:00pm - 8:00pm | Seats (Total: 20)<br>PLS 4102 |

**ENTM710** **Insect Biodiversity, Physiology and Ecology**

*A survey course discussing the various families of insects, discuss thing their anatomy and physiology, and their role in ecological systems. Students will examine the ecological and evolutionary perspectives on interactions between plants and vertebrate and invertebrate animals. Further, it explores the applied consequences of animal-plant interactions to agroecology and conservation biology. These goals are achieved by reviewing the theoretical underpinnings of animal-plant interactions, and exposing students to research literature on animal-plant interactions.*

*Click here for program information.*

| | | |
|---|---|---|
| PLE1 | Marcia Shofner | Seats (Total: 8) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Graduate Programs in Applied Entomology. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**ENTM756** **Insect Diseases and Pathology**

*Credit only granted for: ENTM715 or ENTM756. Formerly: ENTM715.*

*Integrates aspects of biochemistry, molecular biology and evolution theory with ecology using pathogens of insects as a model. The various biotic (living) and abiotic (nonliving) factors that can contribute to plant problems. Explores the direction and goals of innovation in microbial biocontrol as well as the effect of social criticism and considerations of environmental impact on attempts to introduce engineered microorganisms.*

*Click here for program information.*

| | | |
|---|---|---|
| PLE1 | Huiyu Sheng, Raymond StLeger | Seats (Total: 8) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Graduate Programs in Applied Entomology. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**ENTM769** **Capstone: Scholarly Paper**

*An examination of the current literature on topics related to the field of applied entomology. The Capstone Course provides the opportunity to apply and integrate best practices based on current research in the form of a formal scholarly paper.*

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|---|---|---|---|
| PLE1 | Cerruti Hooks | Seats (Total: 1) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | Class time/details on ELMs | ONLINE | |
| | *Must be in Graduate Programs in Applied Entomology. All other graduate students must request permission. Contact oes@umd.edu.* | | |

**ENTM788C** **Entomological Topics; Colloquium**

*One lecture or one two-hour laboratory period a week for each credit hour. Lectures, group discussions or laboratory sessions on selected topics such as: aquatic insects, biological control of insects, entomological literature, forest entomology, history of entomology, insect biochemistry, insect embryology, immature insects, insect behavior, insect communication, principles of entomological research.*

| | | | |
|---|---|---|---|
| 0101 | Leslie Pick | Seats (Total: 45) | |
| | F 12:00pm - 12:50pm | PLS 1130 | |
| | F 1:00pm - 1:50pm | PLS 1130 | Discussion |

**ENTM798E** **Topic Seminar; Professional Development for Life Scientists**

*Discussion and presentation of current research and literature.*

| | | | |
|---|---|---|---|
| 0101 | Kelly Hamby, Anahi Espindola | Seats (Total: 26) | |
| | Tu 3:30pm - 4:20pm | ESJ B0320 | |

**ENTM799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**ENTM898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**ENTM899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# ENTS Telecommunications Fall 2024

**ENTS622** **Introduction to Digital Communication Systems**

*Restriction: Must be in Telecommunications (Master's) program; or permission of ENGR-Electrical & Computer Engineering department. Credit only granted for: ENTS622 or ENTS689B. Formerly: ENTS689B.*

*Principles of analog and digital communication systems design. Analysis of the performance and relative merits of different modulation and demodulation, signal processing, filtering and error control schemes in communication systems. Also provides an understanding of the design of modern digital communication systems.*

*Click here for more course information.*

| | | | |
|---|---|---|---|
| 0101 | Alejandra Mercado<br>M 5:30pm - 8:15pm<br>Tu 5:30pm - 7:00pm<br>Tu 7:00pm - 8:15pm | Seats (Total: 16)<br>KEB 1200<br>AVW 1362<br>AVW 1458 | <br><br>Lab<br>Discussion |
| 0102 | Alejandra Mercado<br>M 5:30pm - 8:15pm<br>Th 9:00am - 10:30am<br>Th 10:30am - 11:45am | Seats (Total: 16)<br>KEB 1200<br>AVW 1362<br>AVW 1458 | <br><br>Lab<br>Discussion |

**ENTS630** **The Economics of International Telecommunications**

*Restriction: Must be in Telecommunications (Master's) program.*

*Basic microeconomic principles used by telecommunications firms, including supply and demand, elasticity, costs, productivity, pricing, market structure and competitive implications of alternative market structures. Market failures and government intervention. Public policy processes affecting business operations.*

Restricted to ENTS majors. All non-major students will need to obtain department permission.

| | | |
|---|---|---|
| 0101 | Joseph Augustine<br>W 5:30pm - 8:15pm | Seats (Total: 35)<br>SQH 1119 |

**ENTS635** **Decision Support Methods for Telecommunication Managers**

*Restriction: Must be in Telecommunications (Master's) program.*

*The aim of this course is to introduce management science techniques for informed decision making. Topics covered can include data analysis and regression, optimization models and applications (workforce scheduling, manufacturing, network design, facility location), sensitivity analysis, decision trees, risk analysis and business simulation models. Emphasis will be on telecommunications managerial problems, model development and the use of software packages for decision support.*

Restricted to ENTS majors. All non-major students will need to obtain department permission. Click here for more course information.

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|---|---|---|
| 0101 | Kazim Ruhi<br>M 2:00pm - 4:45pm | Seats (Total: 40)<br>TWS 0234 |

**ENTS640** **Networks and Protocols I**

*Restriction: Must be in Telecommunications (Master's) program.*

*An overview of design issues and the important industry standards for digital communications networks. This includes protocols, data communications technologies, error correction and detection, congestion control, traffic routing, Local Area Network (LAN) protocols, TCP/IP, and some security issues.*

| | | | |
|---|---|---|---|
| 0101 | Zoltan Safar | Seats (Total: 24) | |
| | F 5:30pm - 8:15pm | EGR 1102 | |
| | Th 5:30pm - 8:15pm | AVW 1442 | Lab |

**ENTS656** **Introduction to Cellular Communication Networks**

*Concepts and techniques involved in wireless digital communications with emphasis on cellular and PCS systems. Properties of Mobile radio channels; intersymbol interference, multipath, and fading effects; interleaving and diversity; multiple access schemes (TDMA, FDMA, CDMA); interuser interference, traffic issues, and cell capacity; power control strategies; frequency reuse and channel assignment; handoff, paging, and location update; cell layout; introduction to cellular and PCS standards.*

*Click here for more course information.*

| | | | |
|---|---|---|---|
| 0101 | Michael Dellomo | Seats (Total: 20) | |
| | Tu 9:00am - 11:45am | CHE 2116 | |
| | M 9:00am - 11:45am | AVW 1458 | Lab |

**ENTS657** **Satellite Communication Systems**

*Credit only granted for: ENTS657 or ENTS689S. Formerly: ENTS689S.*

*An examination of satellite telecommunication systems with an emphasis on the mobile satellite systems (MSS). Topics will include a historical perspective, orbital mechanics and constellations, choice of orbital parameters, propagations considerations, link budgets, interference issues and other obstacles, and existing and proposed mobile satellite systems. It will also look at some of the business aspects such as the cost of deploying and maintaining these systems.*

| | | |
|---|---|---|
| 0101 | Michael Dellomo | Seats (Total: 24) |
| | W 2:00pm - 4:45pm | AVW 1458 |

**ENTS669B** **Special Topics in Computing; Distributed Systems in a Virtual Environment**

*Selected topics of current importance in computing.*

Please click here for more course information.

| | | |
|---|---|---|
| 0101 | Jeff McKinney | Seats (Total: 18) |
| | Tu 5:30pm - 8:15pm | AVW 1442 |

**ENTS669D** **Special Topics in Computing; Foundations of Machine Learning**

*Selected topics of current importance in computing.*

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|---|---|---|---|
| 0101 | Sanghamitra Dutta<br>MW 12:30pm - 1:45pm | Seats (Total: 3)<br>AJC 2132 | |

**ENTS759I** **Advanced Topics in Communications; Selected Topics in 5G System Design and Evolution**

*Selected advanced topics in communications.*

| | | | |
|---|---|---|---|
| 0101 | Kamran Etemad<br>M 10:00am - 12:45pm | Seats (Total: 24)<br>CHE 2136 | |

# EPIB Epidemiology and Biostatistics Fall 2024

**EPIB301** **Epidemiology for Public Health Practice**

*Restriction: Must be in Public Health Science program; or must be in Community Health program. And must have earned a minimum of 45 credits.*

*An examination of the discipline of epidemiology and its application to public health issues and practices, covering current epidemiological concepts and methods.*

As agreed to during the change of major workshop or orientation to PHSC: PHSC students who declared their major BEFORE the spring 2018 semester are required to take EPIB300 before EPIB301. PHSC students who declared their major DURING the spring 2018 semester and later, are required to take EPIB301 before EPIB315.

| | | | |
|---|---|---|---|
| 0101 | Jessica Keralis<br>TuTh 3:30pm - 4:20pm<br>M 9:00am - 9:50am<br>*Restricted to Public Health Science majors at College Park.* | Seats (Total: 20)<br>ESJ 0224<br>SPH 0307 | Discussion |
| 0102 | Jessica Keralis<br>TuTh 3:30pm - 4:20pm<br>M 10:00am - 10:50am<br>*Restricted to Public Health Science majors at College Park.* | Seats (Total: 20)<br>ESJ 0224<br>SPH 0307 | Discussion |
| 0103 | Jessica Keralis<br>TuTh 3:30pm - 4:20pm<br>M 11:00am - 11:50am<br>*Restricted to Public Health Science majors at College Park.* | Seats (Total: 20)<br>ESJ 0224<br>SPH 0307 | Discussion |
| 0104 | Jessica Keralis<br>TuTh 3:30pm - 4:20pm<br>M 12:00pm - 12:50pm<br>*Restricted to Public Health Science majors at College Park.* | Seats (Total: 20)<br>ESJ 0224<br>SPH 0307 | Discussion |

| | | | |
|---|---|---|---|
| 0105 | Jessica Keralis | Seats (Total: 20) | |
| | TuTh 3:30pm - 4:20pm<br>M 1:00pm - 1:50pm | ESJ 0224<br>SPH 0307 | Discussion |
| | *Restricted to Public Health Science majors at College Park.* | | |
| 0106 | Jessica Keralis | Seats (Total: 20) | |
| | TuTh 3:30pm - 4:20pm<br>M 2:00pm - 2:50pm | ESJ 0224<br>SPH 0307 | Discussion |
| | *Restricted to Public Health Science majors at College Park.* | | |
| 0107 | Jessica Keralis | Seats (Total: 20) | |
| | TuTh 3:30pm - 4:20pm<br>M 3:00pm - 3:50pm | ESJ 0224<br>SPH 0307 | Discussion |
| | *Restricted to Public Health Science majors at College Park.* | | |
| 0108 | Jessica Keralis | Seats (Total: 20) | |
| | TuTh 3:30pm - 4:20pm<br>M 11:00am - 11:50am | ESJ 0224<br>SPH 0303 | Discussion |
| | *Restricted to Public Health Science majors at College Park.* | | |
| 0201 | Jessica Keralis | Seats (Total: 20) | |
| | TuTh 3:30pm - 4:20pm<br>M 9:00am - 9:50am | ESJ 0224<br>Location: TBA | Discussion |
| | *Restricted to College Park students in the Behavioral and Community Health major.* | | |
| 0202 | Jessica Keralis | Seats (Total: 20) | |
| | TuTh 3:30pm - 4:20pm<br>W 1:00pm - 1:50pm | ESJ 0224<br>SPH 0307 | Discussion |
| | *Restricted to College Park students in the Behavioral and Community Health major.* | | |

**EPIB301H** **Epidemiology for Public Health Practice**

(Perm req)

*Restriction: Must be in Public Health Science program; or must be in Community Health program. And must have earned a minimum of 45 credits.*

*An examination of the discipline of epidemiology and its application to public health issues and practices, covering current epidemiological concepts and methods.*

| | | | |
|---|---|---|---|
| 0201 | Jessica Keralis | Seats (Total: 3) | |
| | TuTh 3:30pm - 4:20pm<br>M 9:00am - 9:50am | ESJ 0224<br>Location: TBA | Discussion |

| | | | |
|---|---|---|---|
| 0202 | Jessica Keralis<br>TuTh 3:30pm - 4:20pm<br>W 1:00pm - 1:50pm | Seats (Total: 3)<br>ESJ 0224<br>SPH 0307 | Discussion |

**EPIB315** **Biostatistics for Public Health Practice**

*Prerequisite: Minimum grade of C- in EPIB301; or must have completed or be concurrently enrolled in HLTH200. Restriction: Must be in one of the following programs (Public Health Science; Community Health). Credit only granted for: EPIB300 or EPIB315. Formerly: EPIB300. Additional information: Course is cross-listed; students should check program advising information to determine which counts for their major. Note that EPIB300 (old number) is still offered for students under previous curriculum.*

*An examination of biostatistical concepts and procedures as they relate to contemporary issues in public health. Focus on applications, hands-on-experience, and interpretations of statistical findings in public health research.*

As agreed to during the change of major workshop or orientation to PHSC: PHSC students who declared their major BEFORE the spring 2018 semester are required to take EPIB300 before EPIB301. PHSC students who declared their major DURING the spring 2018 semester and later, are required to take EPIB301 before EPIB315.

| | | | |
|---|---|---|---|
| 0101 | Huang Lin<br>TuTh 11:00am - 11:50am<br>M 8:00am - 9:50am | Seats (Total: 20)<br>ESJ 0202<br>SPH 0116B | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0102 | Huang Lin<br>TuTh 11:00am - 11:50am<br>M 10:00am - 11:50am | Seats (Total: 20)<br>ESJ 0202<br>SPH 0116B | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0103 | Huang Lin<br>TuTh 11:00am - 11:50am<br>M 12:00pm - 1:50pm | Seats (Total: 20)<br>ESJ 0202<br>SPH 0116B | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0104 | Huang Lin<br>TuTh 11:00am - 11:50am<br>M 2:00pm - 3:50pm | Seats (Total: 20)<br>ESJ 0202<br>SPH 0116B | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |

| | | | |
|---|---|---|---|
| 0105 | Huang Lin<br>TuTh 11:00am - 11:50am<br>F 8:00am - 9:50am | Seats (Total: 20)<br>ESJ 0202<br>SPH 0121 | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0106 | Huang Lin<br>TuTh 11:00am - 11:50am<br>F 10:00am - 11:50am | Seats (Total: 20)<br>ESJ 0202<br>SPH 0121 | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0107 | Huang Lin<br>TuTh 11:00am - 11:50am<br>F 12:00pm - 1:50pm | Seats (Total: 20)<br>ESJ 0202<br>SPH 0302 | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0108 | Huang Lin<br>TuTh 11:00am - 11:50am<br>F 2:00pm - 3:50pm | Seats (Total: 20)<br>ESJ 0202<br>SPH 0302 | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0201 | Huang Lin<br>TuTh 11:00am - 11:50am<br>Th 4:00pm - 5:50pm | Seats (Total: 15)<br>ESJ 0202<br>SPH 0121 | Discussion |
| | *Restricted to students in the Behavioral and Community Health major.* | | |
| 0202 | Huang Lin<br>TuTh 11:00am - 11:50am<br>F 12:00pm - 1:50pm | Seats (Total: 20)<br>ESJ 0202<br>SPH 0121 | Discussion |
| | *Restricted to students in the Behavioral and Community Health major.* | | |
| ESG1 | Zeynep Kacar<br>Tu 2:00pm - 4:30pm<br>Class time/details on ELMs | Seats (Total: 35)<br>BLD3 3202<br>ONLINE | Discussion |
| | *Restricted to Shady Grove students in the Public Health Science major.* | | |

**EPIB399** **Epidemiology and Biostatistics Independent Study**

*The EPIB undergraduate independent study is an opportunity for undergraduates from other departments in the SPH or the university to work with an Epidemiology and Biostatistics faculty member on research or special projects that are based out of EPIB.*

**Contact department for information to register for this course.**

**EPIB610** **Foundations of Epidemiology**

*Prerequisite: EPIB300; or equivalent undergraduate statistics or biostatistics course with a grade of C- or higher; or a score of 70% or higher on EPIB300 placement exam. Credit only granted for: EPIB610 or HLTH720. Formerly: HLTH720.*

*Introduction to the discipline of epidemiology and its applications to health issues and practices. Basic epidemiologic concepts and methods will be covered.*

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|---|---|---|
| 0101 | Edmond Shenassa<br>Tu 4:15pm - 7:00pm | Seats (Total: 40)<br>ANS 0412 |
| PLN1 | Edmond Shenassa<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE |
| | *Must be in Graduate Programs in Applied Epidemiology. Golden ID students are not eligible for this section.* | |

**EPIB612** **Epidemiologic Study Design**

(Perm req)

*Prerequisite: EPIB611.*

*Application of epidemiologic study designs, analytic methods used for analysis of cohort, case-control, cross-sectional, and clinical trials research.*

| | | |
|---|---|---|
| 0101 | Hongjie Liu<br>M 4:00pm - 6:45pm | Seats (Total: 20)<br>ATL 1434 |

**EPIB642** **Obesity Epidemiology: Hormones and Cancer**

*Prerequisite: Students must have completed either SPHL602 or EPIB610 Foundations of Epidemiology (or equivalent). BS/MPH students who have completed EPIB301 may enroll. Students from other departments must request departmental permission to register.*

*This course provides an overview of the epidemiology, prevention and treatment of obesity with a focus on associations with cancer and hormonal mechanisms. This course will integrate public health disciplines including epidemiological methods, molecular biology, behavior and clinical science to discuss the causes and consequences of obesity, particularly cancer.*

| | | |
|---|---|---|
| 0101 | Cher Dallal<br>W 1:00pm - 3:45pm | Seats (Total: 15)<br>ATL 2352 |

**EPIB650** **Biostatistics I**

*Prerequisite: EPIB300; or equivalent undergraduate statistics or biostatistics course with a grade of C- or higher; or a score of 70% or higher on EPIB placement exam. Credit only granted for: EPIB650, HLTH651, or HLTH688B. Formerly: HLTH651 and HLTH688B.*

*Basic statistical concepts and procedures for Public Health. Focuses on applications, hands-on-experience, and interpretations of statistical findings.*

| | | |
|---|---|---|
| 0101 | Yan Li<br>W 4:15pm - 7:00pm | Seats (Total: 40)<br>SPH 1301 |
| PLY1 | Yan Li<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE |
| | *Must be in Health Data Analysis (GC). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**EPIB651** **Applied Regression Analysis**

(Perm req)

*Prerequisite: 1 course with a minimum grade of B- from (SPHL602, EPIB650); or a minimum score of 70% on the SPHL602 or EPIB650 waiver exam. Recommended: EPIB697 or previous experience working with SAS is highly recommended.*

*An introduction to important statistical methods used in public health research, including nonparametric hypothesis testing, ANOVA, simple and multiple linear regression, logistic regression, and categorical data analysis.*

| | | |
|---|---|---|
| 0101 | Mei-Ling Lee<br>Th 1:00pm - 3:45pm | Seats (Total: 20)<br>SPH 0227 |

**EPIB652** **Categorical Data Analysis**

(Perm req)

*Prerequisite: EPIB651. Recommended: EPIB697 or previous experience working with SAS is highly recommended.*

*Methods for analysis of categorical data as applied to public health research, including contingency tables, logistic regression, multicategory logic models, loglinear models, and models for matched-pairs.*

| | | |
|---|---|---|
| 0101 | Tianzhou Ma<br>W 4:15pm - 7:00pm | Seats (Total: 20)<br>ATL 1434 |

**EPIB655** **Longitudinal Data Analysis**

(Perm req)

*Prerequisite: EPIB651.*

*Statistical models for drawing scientific inferences from longitudinal data, longitudinal study design, repeated measures and random effects to account for experimental designs that involve correlated responses, handling of missing data.*

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|---|---|---|
| 0101 | Xin He<br>M 1:00pm - 3:45pm | Seats (Total: 20)<br>SPH 0303 |

**EPIB697** **Public Health Data Management**

(Perm req)

*Prerequisite: Permission of instructor.*

*This course is designed to provide students with the expertise needed to effectively manage research data using SAS as the statistical programming language.*

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|---|---|---|
| 0101 | Amanda Ng<br>Th 4:00pm - 6:45pm | Seats (Total: 25)<br>ONLINE |
| PLY1 | Amanda Ng<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE |
| | *Must be in Health Data Analysis (GC). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**EPIB778** **Practical Experience in Public Health**

(Perm req)

*Practice experience providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the practice experience will depend upon the student's background and career goals.*

**Contact department for information to register for this course.**

**EPIB786** **Capstone Project in Public Health**

(Perm req)

*Prerequisite: Permission of SPHL-Epidemiology & Biostatistics department.*

*Capstone experience providing opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.*

**Contact department for information to register for this course.**

**EPIB788** **Critical Readings in Epidemiology and Biostatistics**

(Perm req)

*Open to master and doctoral students to discuss critical readings in Epidemiology and Biostatistics.*

| | | |
|---|---|---|
| 0101 | Edmond Shenassa<br>W 10:00am - 12:00pm | Seats (Total: 15)<br>ATL 1425 |

**EPIB798** **Independent Study**

(Perm req)

*Master or doctoral students who desire to pursue special research problems under the direction of a faculty memeber of the department may register for 1-6 hours of credit under this number.*

**Contact department for information to register for this course.**

**EPIB799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**EPIB898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**EPIB899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

## FGSM Federal and Global Fellows Fall 2024

**FGSM310** **Political Engagement and Advocacy**

(Perm req)

*Restriction: Must be in the Federal Fellows Program; and permission of instructor. Cross-listed with: HNUH318T. Credit only granted for: HNUH318T or FGSM310.*

*An examination of questions and issues in the practice of political engagement and advocacy. Guest lecturers drawn from political, civic engagement, and advocacy arenas will visit class and participate in discussions.*

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|---|---|---|
| 0101 | Peter Owen<br>M 6:00pm - 9:00pm | Seats (Total: 24)<br>ESJ 1215 |

**FGSM315** **Civic Leadership and Human Services**

(Perm req)

*Restriction: Must be in the Maryland Fellows Program; and Permission of Department. Cross-listed with: HNUH319T.*

*An examination of important issues, methodologies and tools of civic leadership in relation to human services, especially at the state and local level.*

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|---|---|---|
| 0101 | Emily Shetty<br>Tu 5:30pm - 8:30pm | Seats (Total: 23)<br>IRB 2107 |

**FGSM320** **Public Health Policy**

(Perm req)

*Restriction: Must be in the Federal Fellows Program; and permission of instructor. Cross-listed with: HNUH328T. Credit only granted for: UNIV348P, HNUH328T or FGSM320. Formerly: UNIV348P.*

*An exploration of the major questions and issues facing the U.S. health care system as well as the formulation and implementation of health policy.*

| | | |
|---|---|---|
| 0101 | Woodie Kessel | Seats (Total: 25) |
| | Tu 3:30pm - 6:30pm | ESJ B0322 |

**FGSM330** **Homeland and National Security Policy**

(Perm req)

*Restriction: Must be in the Federal Fellows Program; and permission of instructor. Cross-listed with: HNUH338T. Credit only granted for: UNIV348T, HNUH338T or FGSM330. Formerly: UNIV348T.*

*An examination of the concept of U.S. homeland and national security, threats, and major vulnerabilities in the context of recent history.*

| | | |
|---|---|---|
| 0101 | Andrew Fausett, Casie Antalis | Seats (Total: 23) |
| | M 6:00pm - 9:00pm | ESJ 1309 |

**FGSM340** **Energy and Environmental Policy**

(Perm req)

*Restriction: Must be in the Federal Fellows Program; and permission of instructor. Cross-listed with: HNUH348T. Credit only granted for: UNIV348E, HNUH348T or FGSM340. Formerly: UNIV348E.*

*An examination of issues of energy and environmental sustainability through an investigation of policy-making in energy, climate change, and sustainable development.*

| | | |
|---|---|---|
| 0101 | Ed Fendley | Seats (Total: 23) |
| | M 3:00pm - 6:00pm | ESJ 1309 |

**FGSM350** **Critical Regions and International Relations**

(Perm req)

*Restriction: Must be in the Global Fellows Program; and permission of instructor. Cross-listed with: HNUH358T. Credit only granted for: HNUH358T or FGSM350.*

*An examination of international relations and foreign policy challenges in critical regions.*

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|---|---|---|
| 0101 | Danusia Hubah | Seats (Total: 23) |
| | Th 7:00pm - 10:00pm | ESJ 1309 |

**FGSM355** **U.S. Intelligence and Policymaking**

(Perm req)

*Restriction: Must be in the Global Fellows Program; and Permission of Department. Cross-listed with: HNUH359T.*

*Examines the role of intelligence in supporting U.S. security strategy and policy. Students will learn how the U.S. Intelligence Community (IC) is structured and organized, and will explore how intelligence is deployed to support the warfighter, diplomats, and senior-level decisionmakers. The course emphasizes the development of critical thinking and analytic skills, as well as professional writing and oral presentation abilities that are necessary for successful work in national security organizations. The course will feature guest lecturers from real-world practitioners to supplement course readings.*

| | | |
|---|---|---|
| 0101 | Bruce Parsell, William Usher<br>Th 7:00pm - 10:00pm | Seats (Total: 23)<br>ESJ 1215 |

**FGSM360** **U.S. Diplomacy and Policymaking**

(Perm req)

*Restriction: Must be in the Global Fellows Program; and permission of instructor. Cross-listed with: HNUH368T. Credit only granted for: HNIUH368T or FGSM360.*

*An examination of questions and issues in the practice of contemporary diplomacy and policy-making. Guest lecturers drawn from Washington policy-making and foreign service communities will visit class and participate in discussion.*

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|---|---|---|
| 0101 | Bradley Gallagher, Nadia Farra<br>Tu 7:00pm - 10:00pm | Seats (Total: 23)<br>ESJ 1309 |

**FGSM365** **Economic Diplomacy: Challenges and Opportunities**

(Perm req)

*Restriction: Must be in the Global Fellows Program; AND Permission of Department. Cross-listed with: HNUH369T. Credit only granted for: FGSM365 or HNUH369T.*

*An examination of political, social, and environmental aspects of the global economy in the context of power competition and technological change.*

| | | |
|---|---|---|
| 0101 | Andrew Nissen<br>M 6:00pm - 9:00pm | Seats (Total: 24)<br>ESJ 2212 |

**FGSM370** **Science Diplomacy: Foreign Policy & Science, Technology, and Innovation**

(Perm req)

*Restriction: Must be in the Global Fellows Program; and permission of instructor. Cross-listed with: HNUH378T. Credit only granted for: UNIV389F, HNUH378T or FGSM370. Formerly: UNIV389F.*

*An exploration of the critical roles scientific knowledge and technological innovation play in the formation and implementation of foreign policy issues, including energy and climate change, public health, space and innovation, and economic development.*

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|---|---|---|
| 0101 | Jonathan Margolis, Jeffrey Haeni<br>W 5:30pm - 8:30pm | Seats (Total: 24)<br>AJC 2119 |

**FGSM375** **Strategic Thinking, AI, and Innovation Power**

(Perm req)

*Restriction: Must be in the UMD Fellows Program; and Permission of Department. Cross-listed with: HNUH379T.*

*This course will prepare students for careers in technology innovation in three segments. First, students will ground themselves in the basics of strategic theory and how to make a strategy at any level of analysis. Second, from a practitioner's perspective, students will explore the U.S. innovation ecosystem in the context of world affairs across industry, academia, government, and venture. By doing so they can also examine potential career paths in building technology power to improve international security. Third, students will gain practical experience from studying cases in innovation power and build their own tech strategy as a capstone experience. Through all three phases of the class, artificial intelligence will be used as the base case and the most important general purpose technology of our day thus gaining an appreciation for AI itself on one hand, and how it is but one example of how technology can impact the destiny of nations on the other.*

| | | |
|---|---|---|
| 0101 | Paul Maykish<br>Tu 6:00pm - 9:00pm | Seats (Total: 23)<br>ESJ 1215 |

**FGSM390** **Global Health Challenges and Water Security**

(Perm req)

*Restriction: Must be in the Global Fellows Program; and permission of instructor. Cross-listed with: HNUH398T. Credit only granted for: HNUH398T, HONR378M, or FGSM390.*

*An examination of questions and issues of global health and water security. Expert practitioners will also visit class and participate in discussions.*

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|---|---|---|
| 0101 | Julien Katchinoff, Jonathan Margolis<br>W 3:00pm - 6:00pm | Seats (Total: 24)<br>AJC 2134 |

**FGSM398** **Federal and Global Experiential Learning**

(Perm req)

*This is the experiential course component of the Federal Fellows Program and Global Fellows Program.*

Cross-listed with HNUH398P. Credit only granted for FGSM398 or HNUH398P.

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|---|---|---|
| 0101 | Jayakumar Arasan, Sabrina Labold<br>Class time/details on ELMs | Seats (Total: 25)<br>ONLINE |

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|---|---|---|
| 0201 | Jayakumar Arasan, Sabrina Labold | Seats (Total: 5) |
| | Class time/details on ELMs | ONLINE |

# FIRE First-Year Innovation & Research Experience Fall 2024

**FIRE120** **FIRE SEMESTER 1**

*Additional information: This is the first course in the FIRE (First-Year Innovation & Research Experience) program sequence.*

*Engages the research process through the design, research, collaborative authorship and iterative review-based refinement of research proposals. Students find and analyze primary literature, think creatively, author and communicate research proposals in a scholarly fashion and work collaboratively to solve scientific and societal problems using technology, delegation and productive team communication.*

| | | |
|---|---|---|
| 0101 | Catherine Spirito | Seats (Total: 38) |
| | M 12:00pm - 12:50pm<br>Contact instructor or department for details. | ATL 2339 |
| | *This section is restricted to BioFIRE students.* | |
| 0102 | Quira Zeidan | Seats (Total: 38) |
| | M 1:00pm - 1:50pm<br>Contact instructor or department for details. | ATL 2339 |
| | *This section is restricted to BioFIRE students.* | |
| 0103 | Jessica O'Hara | Seats (Total: 38) |
| | M 11:00am - 11:50am<br>Contact instructor or department for details. | ATL 2339 |
| 0104 | Danielle Niu | Seats (Total: 38) |
| | F 1:00pm - 1:50pm<br>Contact instructor or department for details. | ATL 2339 |
| 0105 | Cherisse Hall | Seats (Total: 38) |
| | F 12:00pm - 12:50pm<br>Contact instructor or department for details. | ATL 2339 |
| 0106 | Kristina Kramarczuk | Seats (Total: 38) |
| | F 9:00am - 9:50am<br>Contact instructor or department for details. | ATL 2339 |

| | | |
|---|---|---|
| 0107 | Halli Weiner<br>M 2:00pm - 2:50pm<br>Contact instructor or department for details. | Seats (Total: 38)<br>ATL 2339 |
| 0108 | Shannon Hilton<br>M 3:00pm - 3:50pm<br>Contact instructor or department for details. | Seats (Total: 38)<br>ATL 2339 |
| 0109 | Jaclyn Bruner<br>W 10:00am - 10:50am<br>Contact instructor or department for details. | Seats (Total: 38)<br>ATL 2339 |
| 0110 | Elizabeth Massey<br>F 11:00am - 11:50am<br>Contact instructor or department for details. | Seats (Total: 38)<br>ATL 2339 |
| 0111 | Benjamin Huffman<br>F 2:00pm - 2:50pm<br>Contact instructor or department for details. | Seats (Total: 38)<br>ATL 2339 |
| 0112 | Mary Chey<br>M 4:00pm - 4:50pm<br>Contact instructor or department for details. | Seats (Total: 38)<br>ATL 2339 |
| 0113 | Shabnam Jabeen<br>W 9:00am - 9:50am<br>Contact instructor or department for details. | Seats (Total: 38)<br>ATL 2339 |
| 0114 | Sara Strey<br>F 10:00am - 10:50am<br>Contact instructor or department for details. | Seats (Total: 38)<br>ATL 2339 |
| 0115 | Thanicha Ruangmas<br>F 3:00pm - 3:50pm<br>Contact instructor or department for details. | Seats (Total: 38)<br>ATL 2339 |
| 0116 | Lena Johnson<br>F 4:00pm - 4:50pm<br>Contact instructor or department for details. | Seats (Total: 38)<br>ATL 2339 |
| FC01 | Danielle Niu<br>W 5:00pm - 5:50pm<br>Contact instructor or department for details.<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 40)<br>ATL 2339 |

**FIRE298** **FIRE Semester 3**

*Capstone course in the FIRE (First-Year Innovation & Research Experience) program sequence. Students in this course transition from trainee to practitioner in their lab. This course focuses on the concepts related to the process of independent research including collaboration with peers, communication of ideas, troubleshooting unexpected outcomes, and discipline-specific methodologies.*

This is the third course in the First-Year Innovation & Research Experience (FIRE) program sequence.

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|---|---|---|
| 0101 | Catherine Spirito<br>Th 3:30pm - 4:20pm<br>Contact instructor or department for details.<br>*Molecular Diagnostics* | Seats (Total: 24)<br>ATL 2339 |
| 0102 | Danielle Niu<br>W 4:00pm - 4:50pm<br>Contact instructor or department for details.<br>*Project Greenhouse* | Seats (Total: 32)<br>ATL 2339 |
| 0103 | Cherisse Hall<br>Th 2:00pm - 2:50pm<br>Contact instructor or department for details.<br>*Bacterial Pathogenesis* | Seats (Total: 32)<br>ATL 2339 |
| 0104 | Jessica O'Hara<br>W 11:00am - 11:50am<br>Contact instructor or department for details.<br>*Host-Pathogen Interactions* | Seats (Total: 32)<br>ATL 2339 |
| 0105 | Quira Zeidan<br>W 12:00pm - 12:50pm<br>Contact instructor or department for details.<br>*CellEx* | Seats (Total: 32)<br>ATL 2339 |
| 0106 | Halli Weiner<br>W 1:00pm - 1:50pm<br>Contact instructor or department for details.<br>*Fertility Science* | Seats (Total: 32)<br>ATL 2339 |
| 0107 | Benjamin Huffman<br>W 2:00pm - 2:50pm<br>Contact instructor or department for details.<br>*Global Development & Design* | Seats (Total: 40)<br>ATL 2339 |

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|---|---|---|
| 0108 | Elizabeth Massey<br>Tu 9:30am - 10:20am<br>Contact instructor or department for details.<br>*Music & Social Identity* | Seats (Total: 40)<br>ATL 2339 |
| 0109 | Shannon Hilton<br>W 3:00pm - 3:50pm<br>Contact instructor or department for details.<br>*Rapid Diagnostics* | Seats (Total: 40)<br>ATL 2339 |
| 0110 | Jaclyn Bruner<br>Th 11:00am - 11:50am<br>Contact instructor or department for details.<br>*Visualizing Social Justice* | Seats (Total: 40)<br>ATL 2339 |
| 0111 | Mary Chey<br>Tu 3:30pm - 4:20pm<br>Contact instructor or department for details.<br>*Gene Silencing* | Seats (Total: 32)<br>ATL 2339 |
| 0112 | Thanicha Ruangmas<br>Tu 11:00am - 11:50am<br>Contact instructor or department for details.<br>*Sustainability Analytics* | Seats (Total: 40)<br>ATL 2339 |
| 0113 | Kristina Kramarczuk<br>Th 9:30am - 10:20am<br>Contact instructor or department for details.<br>*Computing & Society* | Seats (Total: 40)<br>ATL 2339 |
| 0114 | Shabnam Jabeen<br>Tu 2:00pm - 3:15pm<br>Contact instructor or department for details.<br>*Quantum Machine Learning* | Seats (Total: 40)<br>ATL 2339 |
| 0115 | Sara Strey<br>Th 12:30pm - 1:20pm<br>Contact instructor or department for details.<br>*Climate Computing* | Seats (Total: 40)<br>ATL 2339 |

| | | |
|---|---|---|
| 0116 | Lena Johnson<br>Tu 12:30pm - 1:20pm<br>Contact instructor or department for details.<br>*BioInspired Robotics* | Seats (Total: 40)<br>ATL 2339 |

**FIRE398** **FIRE Research Leadership**

*Earn academic credit for the time spent supporting, mentoring, and leading students in FIRE Research streams.*

This course is for students serving as FIRE Peer Research Mentors.

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|---|---|---|
| 0101 | Catherine Spirito<br>Class time/details on ELMs<br>*Molecular Diagnostics* | Seats (Total: 15)<br>ONLINE |
| 0102 | Danielle Niu<br>Class time/details on ELMs<br>*Project Greenhouse* | Seats (Total: 15)<br>ONLINE |
| 0103 | Cherisse Hall<br>Class time/details on ELMs<br>*Bacterial Pathogenesis* | Seats (Total: 15)<br>ONLINE |
| 0104 | Jessica O'Hara<br>Class time/details on ELMs<br>*Host-Pathogen Interactions* | Seats (Total: 15)<br>ONLINE |
| 0105 | Quira Zeidan<br>Class time/details on ELMs<br>*CellEx* | Seats (Total: 15)<br>ONLINE |
| 0106 | Halli Weiner<br>Class time/details on ELMs<br>*Fertility Science* | Seats (Total: 15)<br>ONLINE |
| 0107 | Benjamin Huffman<br>Class time/details on ELMs<br>*Global Development & Design* | Seats (Total: 15)<br>ONLINE |

| | | |
|---|---|---|
| 0108 | Elizabeth Massey<br>Class time/details on ELMs<br>*Music & Social Identity* | Seats (Total: 15)<br>ONLINE |
| 0109 | Shannon Hilton<br>Class time/details on ELMs<br>*Rapid Diagnostics* | Seats (Total: 15)<br>ONLINE |
| 0110 | Jaclyn Bruner<br>Class time/details on ELMs<br>*Visualizing Social Justice* | Seats (Total: 15)<br>ONLINE |
| 0111 | Mary Chey<br>Class time/details on ELMs<br>*Gene Silencing* | Seats (Total: 15)<br>ONLINE |
| 0112 | Thanicha Ruangmas<br>Class time/details on ELMs<br>*Sustainability Analytics* | Seats (Total: 15)<br>ONLINE |
| 0113 | Kristina Kramarczuk<br>Class time/details on ELMs<br>*Computing & Society* | Seats (Total: 15)<br>ONLINE |
| 0114 | Shabnam Jabeen<br>Class time/details on ELMs<br>*Quantum Machine Learning* | Seats (Total: 15)<br>ONLINE |
| 0115 | Sara Strey<br>Class time/details on ELMs<br>*Climate Computing* | Seats (Total: 15)<br>ONLINE |
| 0116 | Lena Johnson<br>Class time/details on ELMs<br>*BioInspired Robotics* | Seats (Total: 15)<br>ONLINE |

# FMSC Family Science Fall 2024

**FMSC110 Families and Global Health**

*Students will explore, define, and study global health, social determinants of health, health inequalities, gender inequality, family violence, and maternal and child health using a global perspective.*

| | | |
|---|---|---|
| 0101 | Martha Yumiseva<br>TuTh 9:30am - 10:45am<br>*Restricted to Family Science majors.* | Seats (Total: 20)<br>ATL 2428 |
| 0201 | Martha Yumiseva<br>TuTh 9:30am - 10:45am<br>*Restricted to non-Family Science majors.* | Seats (Total: 20)<br>ATL 2428 |
| 0301 | Sun Cho<br>MWF 1:00pm - 1:50pm<br>*Restricted to Family Science majors.* | Seats (Total: 20)<br>SPH 0308 |
| 0302 | Sun Cho<br>MWF 1:00pm - 1:50pm<br>*Restricted to All SPH majors.* | Seats (Total: 20)<br>SPH 0308 |

**FMSC110S** **Families and Global Health**

*Students will explore, define, and study global health, social determinants of health, health inequalities, gender inequality, family violence, and maternal and child health using a global perspective.*

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|---|---|---|
| 0101 | Elisabeth Maring<br>TuTh 12:30pm - 1:45pm<br>*Restricted to CPSP Global Public Health (CPGH) students.* | Seats (Total: 96)<br>CCC 1100 |

**FMSC123** **Personal Financial Literacy: From Distress to Success**

*Exploring strategic thinking, career, education, financial planning during college years as the foundation for success in living a meaningful life. While introducing relevant institutions and tools & techniques that are critical for financial planning, this course applies value-based goal setting and strategic planning that inform individuals' paths for a successful career, educational attainment, and optimum (mental, physical and financial) wellbeing throughout their life cycle. The course particularly emphasizes the individual's responsibility of living in an institution rich society, where, continuous learning, understanding institutions, rational decision-making, valuing relationships and networking, early career development, record keeping, budgeting, generating income and wealth, purposeful spending, saving and investing, tax planning, appropriate use of loans, risk taking and insurance, and retirement planning are well rewarded and ensure the optimum use of college years and the rest of life-course.*

| | | |
|---|---|---|
| 0101 | Manouchehr Mokhtari<br>Class time/details on ELMs | Seats (Total: 40)<br>ONLINE |

**FMSC126** **International Family Law: Parent/Child Relationship in the Americas**

*In this Global Classroom, U.S. students will work synchronously online with their international peers in Brazil to critically think about cutting-edge ethical, legal, and policy, issues in the field of International Family Law focusing on the parent/child relationship. Topics range from education, foster care, to human development. Students contrast parents' rights to raise their children as they see fit with the tension when the state steps in to provide protection in areas like medical decision making and child abuse and consider the social, cultural, racial, religious, economic, or socioeconomic contexts that influence each of these topics. In so doing, students will be challenged to think critically and see their place in creating actionable change in a global society.*

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|---|---|---|
| 0101 | Kerry Tripp | Seats (Total: 15) |
| | Tu 2:30pm - 3:45pm | ONLINE |
| | Class time/details on ELMs | ONLINE |

**FMSC170** **Modern Families**

*Credit only granted for: FMSC170 or FMSC298F. Formerly: FMSC298F.*

*What is a Family? Engage in examination of the current trends and controversial issues in family life, including issues of marriage, reproductive technologies, adoption, child custody, remarriage, and marital violence.*

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|---|---|---|
| FCW1 | Shilpa Reddy | Seats (Total: 40) |
| | TuTh 3:00pm - 4:15pm | ONLINE |
| | *Restricted to students in Freshmen Connection.* | |

**FMSC177** **U SAD? Coping with Stress, Anxiety, and Depression**

*Students on UMD campus experience new challenges to their mental health and well-being every semester, and there are limited resources to help students manage their own health or to support their peers. This experiential skill development workshop course is designed to assist students in developing their knowledge in ways to recognize, manage, and cope with symptoms of stress, anxiety, and depression. There is a focus on coping with pandemic-related and course-related concerns, relationship issues, and a range of other student concerns.*

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|---|---|---|
| 0101 | Adrian Cortez, Amy Morgan | Seats (Total: 30) |
| | **Meets August 26, 2024 - October 15, 2024** | |
| | M 1:00pm - 2:30pm | ESJ 1309 |
| | Contact instructor or department for details. | |
| 0102 | Amy Morgan, Adrian Cortez | Seats (Total: 30) |
| | **Meets October 21, 2024 - December 9, 2024** | |
| | M 1:00pm - 2:30pm | ESJ 1309 |
| | Contact instructor or department for details. | |

**FMSC190** **Man Up! Where Are The Fathers?**

*An examination of changing fatherhood roles, health, and inequality in diverse families. Focus will be on masculinities and disparities among men by race and class; provider role expectations; and trauma and violence faced by men in contemporary society.*

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|---|---|---|
| 0101 | Kevin Roy<br>MWF 11:00am - 11:50am | Seats (Total: 48)<br>SPH 1301 |
| FC01 | Kevin Roy<br>MW 3:00pm - 4:15pm | Seats (Total: 0)<br>CCC 1200 |

*Restricted to students in Freshmen Connection. This course is a part of Carillon Communities living-learning program. Students interested in participating in the Carillon community must register for CLUS080 FC01. Registration in CLUS080 will automatically enroll you in the required Carillon courses FMSC190 FC01 and IDEA101 FC01.*

**FMSC260** **Couples, Marriage, and Families: Intimate Relationship Across the Life Course**

*Covers the different aspects of couple relationships and family life. This includes common problems in couple relationships, and resources to strengthen couple and family relationships. You will also learn about stages of relationships, theories of love and family, policy related to couples and family formation, and how research is conducted with couples and families. Together, we will discuss and explore issues that couples and families face in modern times and will consider how many of these issues have changed due to policy, technology, attitudes, and a variety of other societal factors that impact relationships in the 21st century. You will also learn important methods of strengthening current and future relationships.*

Restricted to Majors or non-majors with less than or equal to 60 credits.

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|---|---|---|
| 0101 | Zachary Berman<br>TuTh 12:30pm - 1:45pm | Seats (Total: 55)<br>HJP 2242 |

**FMSC270** **Sex, Drugs, and Social Media: Adolescent Health and Development**

*This course will ask: How can families, schools, communities, and society help adolescents to navigate contemporary stressors and develop into physically and mentally healthy adults? To do this, we will use research, and an understanding of adolescent development, to explore and analyze issues affecting the health and behavior of American adolescents. Such issues include (but are not limited to) sex education, the role of social media in mental health, substance use, policing in schools, dating violence, suicide prevention, access to sexual and reproductive health care, and school start times. We will consider how adolescent well-being is shaped by social contexts, including the role of parents and family members, peers, schools, communities, social media, and culture. We will examine policies and programs that affect adolescents, how effective they are at promoting adolescent health, and how they might be improved to better support healthy adolescent development.*

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|---|---|---|
| 0101 | Amy Lewin | Seats (Total: 30) |
| | TuTh 9:30am - 10:45am | SPH 0307 |

**FMSC286** **Assisted Reproduction Law and Policy in the US and Brazil**

*Credit only granted for: FMSC186 or FMSC286. Additional information: This is a global classroom course where students will learn online, meet once a week in a synchronous class on Webex with their Brazilian classmates, and work individually via Webex in small international groups.*

*In this Global Classroom, U.S. students will work synchronously online with their international partners in Brazil to critically think about cutting-edge ethical, legal, policy and scientific issues in the field of Assisted Reproduction Technologies (ART) in the two countries. This course looks at conventional families created in unconventional ways to examine such topics as sperm and egg donation, in vitro fertilization, surrogacy, reproductive organ transplants and more - while considering the social, cultural, racial, religious, economic, or socioeconomic contexts that influence each. Students will work with their foreign peers in small groups to compare ART in each country and then create proposed legislation for either the U.S. or Brazil which their international group will present online to their colleges and submit to the country's legislators. In so doing, students will be challenged to think critically and see their place in creating actionable change in a global society.*

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|---|---|---|
| 0101 | Kerry Tripp | Seats (Total: 15) |
| | M 2:30pm - 3:45pm<br>Class time/details on ELMs | ONLINE<br>ONLINE |

**FMSC290** **Family Economics**

*Credit only granted for: FMSC290 or FMST290. Formerly: FMST290.*

*Application of economic methodology to study families under various economic situations. Examination of how decisions about marriage, divorce, fertility, consumption and time use are influenced by labor/housing markets, tax structure, social welfare benefits and other economic considerations.*

Restricted to Majors or non-majors with less than or equal to 60 credits.

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|---|---|---|
| 0101 | Dina Rady | Seats (Total: 48) |
| | MW 4:30pm - 5:45pm | PHY 2106 |

**FMSC302** **Research Methods in Family Science**

*Prerequisite: Must have completed an introductory statistics course. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC302 or FMST302. Formerly: FMST302.*

*Introduction to the methods of the social and behavioral sciences employed in family science. The role of theory, the development of hypotheses, measurement, design, and data analysis.*

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|---|---|---|
| 0101 | Pond Ezra | Seats (Total: 50) |
| | MW 9:00am - 10:15am | SPH 1303 |

**FMSC310** **Maternal, Child and Family Health**

*Credit only granted for: FMSC310, FMSC410 or FMSC498A. Formerly: FMSC498A and FMSC410. Additional information: A comprehensive understanding of maternal, child, and family health, with additional emphasis on environmental health, needs assessment and evaluation, enabling students to more effectively address issues in the workplace.*

*Overview of the major issues in Maternal, Child, and Family Health in the U.S. and the world. The course will cover the social, political, environmental, and economic factors that shape the health of women, children, and families throughout the life course. It will employ the core disciplines of public health -- 1) epidemiology/biostatistics, 2) environmental health, 3) health policy and administration, and 4) social and behavioral health -- to examine these factors. The course introduces specific issues and interventions and places these issues and interventions within their broad sociohistorical context.*

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|---|---|---|
| 0101 | Julia Steinberg<br>MW 11:00am - 12:15pm | Seats (Total: 48)<br>SPH 1302 |
| 0201 | Marie Thoma<br>TuTh 11:00am - 12:15pm | Seats (Total: 48)<br>SPH 0302 |
| 0401 | Chinedu Obioha<br>TuTh 9:30am - 10:45am | Seats (Total: 48)<br>SPH 0308 |
| 0501 | Marie Thoma<br>TuTh 12:30pm - 1:45pm | Seats (Total: 48)<br>SPH 1302 |

**FMSC330** **Family Health: Health Happens in Families**

*Restriction: Junior standing or higher.*

*The objective of this gateway course is to help you understand and apply basic theories and empirical data on family health. The course is designed to provide you with skills to think critically about theories including: Life Course Theory, the Bio-Ecological and Social-Ecological Models, and Systems Theory. We will ask questions about the distinct qualities and intersections of contexts and characteristics that impact the functioning of families. We will apply theory and research to topical issues in family health that are impacted by social structures such as conflict, crisis, migration, incarceration and inequalities.*

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|---|---|---|
| 0101 | Anna Paden<br>MW 1:00pm - 1:50pm<br>Class time/details on ELMs | Seats (Total: 60)<br>SPH 1303<br>ONLINE |
| 0201 | Cinthya Alberto<br>TuTh 12:30pm - 1:45pm | Seats (Total: 55)<br>SPH 1303 |

**FMSC332** **Children in Families**

*Prerequisite: PSYC100 or FMSC105. Credit only granted for: FMSC332 or FMST332. Formerly: FMST332.*

*A family life education approach to the study of children and families. Emphasis on the interaction of children with parents, siblings, extended kin, and the community.*

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|---|---|---|
| 0101 | Amy Lewin<br>TuTh 11:00am - 12:15pm | Seats (Total: 65)<br>SPH 1303 |
| 0201 | Christine Schull<br>MW 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 60)<br>SPH 1303<br>ONLINE |

**FMSC340** **Mental Health and Healing in Families**

*Using an interdisciplinary approach to study mental health, mental wellness, and substance use, we will answer questions such as: How has our understanding and treatment of mental health changed throughout history? What are the current prevalence patterns and risk factors associated with mental health conditions? What is the prevention to postvention continuum? What is the role of relationships, families, and communities in addressing mental health? How do we diagnose and treat various mental health disorders using the best available research? And, what are the various mental health disciplines and how do they differ? This course is designed to examine mental health issues across the life course. We will explore the influence of social contexts, including racism and additional forms of othering, on mental health and wellness, and introduce the health systems that support mental health prevention and treatment.*

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|---|---|---|
| 0101 | Lauren Messina<br>TuTh 9:30am - 10:45am | Seats (Total: 48)<br>SPH 1302 |

**FMSC341** **Personal and Family Finance**

*Credit only granted for: FMSC341 or FMST341. Formerly: FMST341.*

*Individual and family financial strategies with emphasis on financial planning, savings, investments, insurance, income taxes, housing, and use of credit. Planning, analyzing, and controlling financial resources to resolve personal/family financial problems and to attain financial security.*

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|---|---|---|
| 0101 | Manouchehr Mokhtari<br>Class time/details on ELMs | Seats (Total: 45)<br>ONLINE |

**FMSC374** **Working with Diverse Families in Public Health Services**

*Prerequisite: FMSC110.*

*Focuses on the "doing" and modeling of skills required in navigating diverse social environments with families. These skills are necessary to engage in authentic work as family scientists, public health professionals, and family health practitioners. Using an intersectional framework, we will examine cultural, ethnic, and linguistic diversity for families impacted by challenges to equity and privilege. The course material emphasizes deep knowledge and skill building towards cultural sensitivity, including history, values, language, religion, and communication with families across multiple racial and ethnic backgrounds. Students will also explore differences emerging from experiences of poverty, sexual orientation and gender identity, and disability. The goal of the course is to support students in developing a family/professional alliance for health and well-being.*

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|---|---|---|
| 0101 | Rabiatu Barrie<br>TuTh 2:00pm - 3:15pm | Seats (Total: 40)<br>SPH 1301 |

**FMSC381** **Family Inequality**

*Prerequisite: SOCY100 or SOCY105. Restriction: Must be in a major within SPHL-Family Science department.*

*Social, political, cultural and economic factors influencing income and wealth in American families.*

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|---|---|---|
| 0101 | Kevin Roy<br>MWF 9:00am - 9:50am | Seats (Total: 40)<br>SPH 1302 |
| 0201 | Natasha Williams<br>TuTh 3:30pm - 4:45pm | Seats (Total: 40)<br>ONLINE |

**FMSC383** **Health and Human Services Delivery and Evaluation**

*Prerequisite: FMSC330. Restriction: Must be in a major within SPHL-Family Science department.*

*Processes of service delivery with special emphasis upon relationships among managers, service providers and clients. The impact of human service systems on families.*

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|---|---|---|
| 0101 | Charles Conway<br>MW 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 48)<br>SPH 0302<br>ONLINE |

**FMSC399** **Independent Study**

(Perm req)

**Contact department for information to register for this course.**

**FMSC432** **Adult Development and Aging in Families**

*Prerequisite: PSYC100; and (SOCY100 or SOCY105). And FMSC332; or must have completed a comparable development course. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC432 or FMST432. Formerly: FMST432.*

*Theory, research, history, and programming related to adult development and aging in the intergenerational context of family.*

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|---|---|---|
| 0201 | Christine Schull | Seats (Total: 40) |
| | MW 10:00am - 10:50am<br>Class time/details on ELMs | SPH 1301<br>ONLINE |

**FMSC460** **Violence in Families**

*Prerequisite: SOCY100, SOCY105, or PSYC100. Credit only granted for: FMSC460 or FMST460. Formerly: FMST460.*

*Theories of child, spouse, and elder abuse in the family setting. Emphasis on historical, psychological, sociological and legal trends relating to physical, emotional, and sexual abuse. Introduction to methods for prevention and remediation.*

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|---|---|---|
| 0101 | Christine Schull | Seats (Total: 48) |
| | MW 9:00am - 9:50am<br>Class time/details on ELMs | SPH 1301<br>ONLINE |

**FMSC477** **Internship and Analysis in Family Science**

(Perm req)

*Prerequisite: FMSC383; and 9 credits in FMSC courses; and permission of SPHL-Family Science department. Restriction: Must be in a major within SPHL-Family Science department. Credit only granted for: FMSC477, FMST347, or FMST477. Formerly: FMST477.*

*A supervised internship and a seminar requiring analysis. Opportunities to integrate theory and practice including 120 hours of contracted field experience. Summer or fall internship contracts due May 1; Spring contracts due December 1. See department for application procedures.*

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|---|---|---|---|
| 0101 | Anna Lacy | Seats (Total: 50) | |
| | M 1:00pm - 2:30pm<br>Class time/details on ELMs | ATL 2428<br>ONLINE | Lab |

**FMSC487** **Family Law**

*Designed for students interested in studying the law, public health, and family science, this course provides students with a general overview of family law and the impact on healthy families. The course also includes the study of cutting-edge issues such as marriage equality, assisted reproduction and ethical issues that may arise.*

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|---|---|---|
| 0101 | Kerry Tripp | Seats (Total: 45) |
| | Th 9:30am - 10:45am<br>Class time/details on ELMs | CHE 2118<br>ONLINE |

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|---|---|---|
| 0201 | Kerry Tripp<br>Th 12:30pm - 1:45pm<br>Class time/details on ELMs | Seats (Total: 45)<br>SPH 0302<br>ONLINE |

**FMSC498** **Special Topics: Family Science; Family Studies**

(Perm req)

*Special course topics in family studies.*

**Contact department for information to register for this course.**

**FMSC498H** **Special Topics: Family Science; Family Studies Honors Thesis**

(Perm req)

*Special course topics in family studies.*

**Contact department for information to register for this course.**

**FMSC631** **Trauma & Addiction in Family Life**

*Credit only granted for: FMSC631 or FMSC698A. Formerly: FMSC698A.*

*Introduces students to traumatic stress, trauma- and stressor-related disorders, and substance-related and addictive disorders. Students will learn about risk factors for traumatic stress along the lifespan and individual and family resiliency to these conditions. This course will provide students with the tools necessary for assessment and diagnosis of trauma- and stressor-related disorders and substance-related and addictive disorders. Students will become knowledgeable about the short-term and long-term consequences of traumatic stress and learn about research-supported best clinical practices for the treatment of trauma- and stressor-related disorders, and substance-related and addictive disorders. The students will also learn about recognizing and preventing burnout, compassion fatigue, and secondary traumatization.*

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|---|---|---|
| 0101 | Mona Mittal<br>Th 10:00am - 12:45pm | Seats (Total: 15)<br>Location: TBA |

**FMSC640** **Family Therapy: Theory and Techniques**

*Credit only granted for: FMSC640 or FMST640. Formerly: FMST640.*

*Overview of fundamental theoretical concepts and clinical procedures in marital and family therapy, with an emphasis on those therapies which operate from a family systems perspective.*

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|---|---|---|
| 0101 | Tiara Fennell<br>M 1:00pm - 3:45pm | Seats (Total: 11)<br>Location: TBA |

**FMSC642** **Normal and Abnormal Individual and Family Development**

(Perm req)

*Prerequisite: FMSC640. Credit only granted for: FMSC642 or FMST642. Formerly: FMST642.*

*Normal development and psychopathology in the family system. Emphasis on parent-child relationships and application of the current Diagnostic and Statistical Manual of Mental Disorders (DSM) to family therapy.*

Formerly: FMST642. Credit only granted for FMSC642 or FMST642. Prerequisite: FMSC640. Normal development and psychopathology in the family system. Emphasis on parent-child relationships and application of the current Diagnostic and Statistical Manual of Mental Disorders (DSM) to family therapy.

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|---|---|---|
| 0101 | Tiara Fennell | Seats (Total: 15) |
| | M 9:00am - 11:45am | Location: TBA |

**FMSC650** **Ethical, Legal, and Professional Principles in Couple and Family Therapy**

*Prerequisite: Permission of SPHL-Family Science department. Restriction: Must be in Couple and Family Therapy (Master's) program.*

*This course offers an introduction to the basic principles and practices in couple and family therapy. It covers major theoretical approaches to couple and family therapy, linking core concepts to practical aspects of assessment and treatment. Readings, didactic presentations by the instructor, and class discussions are designed to build students' knowledge of both generic therapy skills and specific techniques within each theoretical model. Emphasis is given to professional ethics, standards, and clinical skills/techniques necessary for the beginning family practitioner. Students become familiar with professional ethical codes as well as ethical decision-making models and how to apply them in clinical practice. In-class roleplays are used for practicing specific assessment and treatment methods, as well as for gaining experience in responding appropriately to a variety of common professional and ethical issues that arise in clinical practice.*

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|---|---|---|
| 0101 | Erica Turner | Seats (Total: 25) |
| | Tu 10:00am - 12:45pm | Location: TBA |

**FMSC652** **Psychopathology and Diagnosis in Family Systems**

*Prerequisite: FMSC651. Restriction: Must be in Couple and Family Therapy (Master's) program.*

*The purpose of this course is to assist intermediate family therapists in further developing their knowledge, clinical, and professional expertise by deepening their understanding of major child and adult psychopathology. Further, students will learn to apply this knowledge to their clinical work, particularly in addressing individual family members' psychopathology within the context of family relationships. Major foci of the course include assessment and diagnostic interviewing in family therapy, and intervention with forms of psychopathology such as depression, anxiety disorders, substance abuse, and major mental disorders with clients who present for couple and family therapy.*

| | | |
|---|---|---|
| 0101 | Mona Mittal | Seats (Total: 20) |
| | Tu 9:30am - 12:15pm | Location: TBA |

**FMSC658** **Supervised Clinical Practice in Couple and Family Therapy**

(Perm req)

*This course is designed to provide supervision of family, couple, and individual therapy client contact. This course is limited to, and required of, all students admitted to the Couples and Family Therapy (CFT) Program. Supervision utilizes various family systems models and differing methods are employed.*

Prerequisite: FMST 650 and permission of instructor.

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|---|---|---|
| 0101 | Tiara Fennell<br>W 9:00am - 12:00pm | Seats (Total: 20)<br>Location: TBA |

**FMSC689** **Research Internship**

(Perm req)

*Research experience resulting in a scholarly article suitable for publication in a peer-reviewed journal.*

**Contact department for information to register for this course.**

**FMSC698** **Advanced Topics in Family Science**

(Perm req)

*Arranged group study on specific topic which may vary from term to term.*

Must have written permission of faculty member and chairperson.

**Contact department for information to register for this course.**

**FMSC699** **Independent Study**

(Perm req)

**Contact department for information to register for this course.**

**FMSC745** **Diversity and Social Justice In Couple and Family Therapy**

(Perm req)

*Credit only granted for: FMSC745 or FMST745. Formerly: FMST745.*

*The purpose of this course is to improve students' cultural competence by sensitizing them to sources of bias in family service delivery, particularly those associated with race, culture/ ethnicity, social class, gender, sexual orientation, immigration, spirituality, and ability. Students will be introduced to major critiques of service delivery, couple and family therapy, and research from each of these perspectives, as well as recommendations for addressing these issues in practice.*

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|---|---|---|
| 0101 | Salwa Shan<br>Th 9:00am - 11:45am | Seats (Total: 15)<br>Location: TBA |

**FMSC750** **Family and Health Policy**

*Credit only granted for: FMSC750 or FMST750. Formerly: FMST750.*

*Development and analysis of public policies affecting the health and well-being of children, youth, and families, with an emphasis on low income and ethnic minority populations. Examination of social, economic, and political dynamics that influence family and health policies and the delivery of health care. Introduction to health advocacy within the US public health system.*

| | | |
|---|---|---|
| 0101 | Christine Schull<br>M 1:00pm - 3:45pm | Seats (Total: 15)<br>SPH 0116A |

**FMSC789** **Non-Thesis Research**

(Perm req)

*Non-thesis option research papers.*

**Contact department for information to register for this course.**

**FMSC799** **Master's Thesis Research**

(Perm req)

Must have written permission of faculty member and chairperson.

**Contact department for information to register for this course.**

**FMSC850** **Maternal & Child Health Epidemiology**

*Restriction: Permission of instructor. Credit only granted for: FMSC850, FMST698P, or FMST850. Formerly: FMST850.*

*Determinants and trends in Maternal and Child Health, including analysis of the role of economic inequalities, race and ethnicity, community contexts, and psychosocial factors across the life course. Overview of methods and data systems used to monitor Maternal and Child Health. Development of a complete population health study.*

| | | |
|---|---|---|
| 0101 | Julia Steinberg<br>Tu 1:00pm - 3:45pm | Seats (Total: 15)<br>Location: TBA |

**FMSC879** **Preparing Future Faculty and Professionals Seminar**

(Perm req)

*Development of skills necessary to obtain and succeed in academic and non-academic positions in family science and public health. Topics include: career mapping, networking, teaching/teaching portfolios, independent research, publishing, grant writing, program and policy evaluation, consulting, job search, interviewing and negotiation, mentoring, diversity, work-family balance, and ethical issues in the workplace. Periodic visits to universities and government/nonprofit employers.*

Development of skills necessary to obtain and succeed in academic and non-academic positions in family science and public health.

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|---|---|---|
| 0101 | Mia Smith-Bynum<br>Th 12:00pm - 12:50pm | Seats (Total: 12)<br>Location: TBA |

**FMSC898** **Pre-Candidacy Research**

**Contact department for information to register for this course.**

**FMSC899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# FREN French Fall 2024

**FREN103** **Intensive Elementary French**

*Prerequisite: Must have appropriate World Language Placement Test (WLPT) score. Restriction: Must not have completed FREN102; and must not be a native/fluent speaker of French. Credit only granted for: FREN102 or FREN103.*

*Covers speaking, reading, writing, listening, and culture of French-speaking world.*

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|---|---|---|
| 0101 | Madeline Muravchik<br>MWF 10:00am - 10:50am<br>Class time/details on ELMs | Seats (Total: 18)<br>JMZ 0120<br>ONLINE |
| 0201 | Haydn Colucci<br>MWF 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 18)<br>JMZ 2125<br>ONLINE |
| 0301 | Morgan Stinson<br>MWF 12:00pm - 12:50pm<br>Class time/details on ELMs | Seats (Total: 18)<br>JMZ 1124<br>ONLINE |

**FREN203** **Intensive Intermediate French**

*Prerequisite: FREN103; or must have appropriate World Language Placement Test (WLPT) score. Restriction: Must not be a native/fluent speaker of French. Credit only granted for: FREN201 or FREN203.*

*Covers speaking, reading, writing, listening, and culture of French-speaking world.*

| | | |
|---|---|---|
| 0101 | Sarah Labat<br>MWF 10:00am - 10:50am<br>Class time/details on ELMs | Seats (Total: 20)<br>JMZ 1224<br>ONLINE |
| 0201 | Kevin Guerrero Hernandez<br>MWF 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 20)<br>JMZ 3120<br>ONLINE |

| | | |
|---|---|---|
| 0301 | Madeline Muravchik<br>MWF 12:00pm - 12:50pm<br>Class time/details on ELMs | Seats (Total: 20)<br>JMZ 3120<br>ONLINE |
| 0401 | Madeline Muravchik<br>MWF 1:00pm - 1:50pm<br>Class time/details on ELMs | Seats (Total: 20)<br>JMZ 3120<br>ONLINE |

**FREN204** **French Grammar and Composition**

*Prerequisite: FREN201 or FREN203; or must have appropriate World Language Placement Test (WLPT) score. Restriction: Not open to native/fluent speakers of French.*

*Intensive study of French grammar and composition.*

| | | |
|---|---|---|
| 0101 | Apolline Lagarde<br>MWF 10:00am - 10:50am<br>Class time/details on ELMs | Seats (Total: 18)<br>JMZ 3120<br>ONLINE |
| 0201 | Morgan Stinson<br>MWF 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 18)<br>JMZ 1117<br>ONLINE |

**FREN211** **French Reading and Conversation**

*Prerequisite: FREN201 or FREN203. Restriction: Must not be a native/fluent speaker of French.*

*Practice in spoken French at intermediate level based on readings in a variety of genres. Written homework and exams.*

**Contact department for information to register for this course.**

**FREN243** **Masterpieces in French and Francophone Cinemas**

*This course, taught in English, will present a large array of films directed by famous French directors (Jean Renoir, Robert Bresson, Jean-Luc Godard, Agnes Varda, etc..) and Francophone filmmakers (Arcand, Sembene) who were internationally known in their time and have had a considerable influence on today's filmmakers in the U.S. (Tarantino, Lynch, Lee, etc..) and abroad (Sissoko, Angelopoulos, VonTrier, ect..).*

| | | |
|---|---|---|
| 0101 | Caroline Eades<br>MW 2:00pm - 3:15pm | Seats (Total: 20)<br>ESJ B0322 |

**FREN250** **Introduction to Cultural and Textual Analysis**

*Prerequisite: FREN204; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French. Credit only granted for: FREN250 or FREN250H.*

*Introduction to cultural and textual analysis of selected readings from various genres in French literature. Taught in French.*

Jointly offered with FREN 250H.

| | | |
|---|---|---|
| 0101 | Theavy Din<br>MW 2:00pm - 3:15pm | Seats (Total: 18)<br>JMZ 0118 |
| 0201 | Cecile Accilien<br>TuTh 11:00am - 12:15pm | Seats (Total: 18)<br>JMZ 0120 |

**FREN250H** **Introduction to Cultural and Textual Analysis**

*Prerequisite: FREN204; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French. Credit only granted for: FREN250 or FREN250H.*

*Introduction to cultural and textual analysis of selected readings from various genres in French literature. Taught in French.*

For general honors students only. Jointly offered with FREN 250.

| | | |
|---|---|---|
| 0101 | Theavy Din<br>MW 2:00pm - 3:15pm | Seats (Total: 18)<br>JMZ 0118 |
| 0201 | Cecile Accilien<br>TuTh 11:00am - 12:15pm | Seats (Total: 18)<br>JMZ 0120 |

**FREN269F** **Special Topics in Study Abroad II; French Conversation I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**FREN269G** **Special Topics in Study Abroad II; French Conversation**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**FREN269P** **Special Topics in Study Abroad II; Perspectives on Contemporary France**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**FREN301** **Composition and Style**

*Prerequisite: FREN250; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.*

*Grammatical analysis, elements of style; range of written genres.*

| | | |
|---|---|---|
| 0101 | Andrea Frisch<br>MW 2:00pm - 3:15pm | Seats (Total: 18)<br>JMZ 1117 |
| 0201 | Marilyn Matar<br>TuTh 12:30pm - 1:45pm | Seats (Total: 18)<br>JMZ 1120 |

**FREN302** **Introduction to Translation**

*Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.*

*Hands-on practice in translation to include a variety of formats and texts (for example, advertising, legal, technical, literary, journalistic, media...) into French and/or English. Includes an extensive overview of translation techniques, theories and approaches. Taught mainly in French.*

| | | |
|---|---|---|
| 0101 | Herve Campangne<br>TuTh 9:30am - 10:45am | Seats (Total: 20)<br>JMZ 3120 |

**FREN306** **Commercial French I**

*Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.*

*Introduction to commercial French including correspondence and business terminology. Emphasis on cross-cultural concepts needed for successful interaction within business settings. Taught in French.*

**Contact department for information to register for this course.**

**FREN311** **Advanced Oral Expression**

*Prerequisite: FREN250; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.*

*Linguistic and thematic analysis of written, audio, and visual texts. Focus on aural and oral skills. Some written assignments and evaluation.*

**Contact department for information to register for this course.**

**FREN312** **France Today**

*Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of French.*

*Analysis and discussion of current events and institutions using various French media resources.*

**Contact department for information to register for this course.**

**FREN313** **Current Issues in the French-Speaking World**

*Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.*

*Analysis and discussion of current events and institutions in the French-speaking world using various French-language media resources with an emphasis on countries and regions outside of France.*

| | | |
|---|---|---|
| 0101 | Valerie Orlando | Seats (Total: 20) |
| | MW 3:30pm - 4:45pm | JMZ 3120 |

**FREN351** **From Romanticism to the Age of Modernism and Beyond**

*Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.*

*A survey of the chief authors and major movements of French literature from Pre-Romanticism to the present.*

Jointly offered with FREN 351H.

| | | |
|---|---|---|
| 0101 | Hannah Wegmann | Seats (Total: 20) |
| | TuTh 11:00am - 12:15pm | JMZ 3120 |

**FREN351H** **From Romanticism to the Age of Modernism and Beyond**

(Perm req)

*Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.*

*A survey of the chief authors and major movements of French literature from Pre-Romanticism to the present.*

Cross-listed with FREN351.

| | | |
|---|---|---|
| 0101 | Hannah Wegmann | Seats (Total: 20) |
| | TuTh 11:00am - 12:15pm | JMZ 3120 |

**FREN352** **From the Age of Epic and Romance to the Enlightenment**

*Prerequisite: FREN301; or students who have taken courses with comparable content may contact the department.*

*A survey of the chief authors and major movements of French literature from the Middle Ages to the end of the 18th century.*

**Contact department for information to register for this course.**

**FREN369F** **Special Topics in Study Abroad III; Third Year French I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**FREN369G** **Special Topics in Study Abroad III; Third-Year French II**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**FREN369Y** **Special Topics in Study Abroad III; Fourth-Year French I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**FREN386** **Experiential Learning**

(Perm req)

*Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Junior standing or higher.*

**Contact department for information to register for this course.**

**FREN387** **Critical Writing on France and the French-Speaking World**

*Prerequisite: FREN301. Restriction: Not open to Native speakers.*

*Intensive writing course based on focused study of issues and concerns drawn from French and Francophone literatures, films, and cultures. Elements of style, review of grammar. Taught in French.*

Theme - Paris: Fact, Fiction, Fantasy

| | | |
|---|---|---|
| 0101 | Hannah Wegmann | Seats (Total: 20) |
| | TuTh 12:30pm - 1:45pm | JMZ 2207 |

**FREN399** **Directed Study in French**

(Perm req)

*Advanced undergraduates develop syllabus, reading list, and course requirements with interested faculty member. Designed for in-depth study of material not offered in regular courses or as expansion of course material. To be planned during semester preceding registration.*

Supervised work under professor of student's choice with permission of instructor. Contact department for details.

**Contact department for information to register for this course.**

**FREN399A** **Directed Study in French**

*Advanced undergraduates develop syllabus, reading list, and course requirements with interested faculty member. Designed for in-depth study of material not offered in regular courses or as expansion of course material. To be planned during semester preceding registration.*

**Contact department for information to register for this course.**

**FREN498A** **Special Topics in French Literature; France and the United States: Understanding French-American Relations, Past and Present**

*Selected topics in French literature.*

Prerequisite- fren387 Designed to provide an extensive study of French perceptions of the United States and of American views of France through selected texts and media. Documents discussed throughout the semester will include works by intellectual, artistic, and literary figures, diplomats and political scientists, travelers, historians and journalists from both sides of the Atlantic. Our discussions will focus on the complex history of France-USA relations, as well as on their most recent developments, taking into account cultural, social and economic aspects.

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|---|---|---|
| 0101 | Herve Campangne | Seats (Total: 20) |
| | TuTh 12:30pm - 1:45pm | JMZ 3120 |

**FREN498G** **Special Topics in French Literature; Gender, Identity, and Race in France and the Francophone World**

*Selected topics in French literature.*

Prerequisite: FREN387. Through texts and films, this course explores the construction of gender, race, ethnicity and identities in France and the French-speaking world from the post-World War II period to the present day. Taught in French.

| | | |
|---|---|---|
| 0101 | Valerie Orlando | Seats (Total: 20) |
| | MW 2:00pm - 3:15pm | JMZ 3120 |

**FREN499X** **Special Topics in French Studies; Directed Study in French**

*An aspect of French studies, the specific topic to be announced each time the course is offered.*

**Contact department for information to register for this course.**

**FREN601** **The History of the French Language**

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|---|---|---|
| 0101 | Mel Scullen | Seats (Total: 10) |
| | M 4:30pm - 7:15pm | JMZ 1104 |

**FREN629C** **Special Topic in Sixteenth Century French Literature; French Colonies 1550-1700**

Working with a mix of historiographical, literary, and political texts and images, this course explores the early modern French colonial imaginary in the Americas.

| | | |
|---|---|---|
| 0101 | Andrea Frisch | Seats (Total: 10) |
| | W 4:30pm - 7:15pm | JMZ 3106A |

**FREN699D** **Seminar; Haiti: Literature, Culture, and Identity**

*Topic to be determined each semester.*

Cross-listed with AMST628G. Credit only granted for FREN699D or AMST628G. Examines Haiti s culture and identity through historical, social, political, economic, linguistic and religious lenses. Through the study of critical and literary texts as well as films we will analyze Haiti's place and influence in history as the first Black Republic and the second independent nation in the Western hemisphere.

| | | |
|---|---|---|
| 0101 | Cecile Accilien | Seats (Total: 10) |
| | Tu 4:30pm - 7:15pm | JMZ 3120 |

**FREN709** **College Teaching of French**

*Introduction to the teaching of French at the college level with particular emphasis on methodology. Seminars in theory, demonstration of different teaching techniques, supervised practice teaching, training in language laboratory procedures, evaluation of instructional materials. Required of all graduate assistants in French.*

Restricted to FRIT and FRMS graduate students unless permission granted by instructor. Explores the theory and methodology of teaching French at the university level, combining practical study with hands-on experience.

| | | |
|---|---|---|
| 0101 | Madeline Muravchik | Seats (Total: 6) |
| | W 2:00pm - 2:50pm | JMZ 3106A |

**FREN798** **Master's Independent Study**

(Perm req)

**Contact department for information to register for this course.**

**FREN799** **Master's Thesis Research**

**Contact department for information to register for this course.**

**FREN889** **Doctoral Independent Study**

(Perm req)

**Contact department for information to register for this course.**

**FREN898** **Pre-Candidacy Research**

**Contact department for information to register for this course.**

**FREN899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# GBHL Global Health Fall 2024

**GBHL200** **Introduction to Global Health**

*Credit only granted for: GBHL200 or MIEH400. Formerly: MIEH400.*

*Global health challenges are immensely complex and underscore the multiple interconnections among social, economic, environmental, and biotechnological dimensions of health problems worldwide. Global health encompasses health care systems, medical practices, and ideas about illness in cross-cultural contexts, as well as issues of health development, global health inequity, racism and other -isms, and human rights issues. We will explore theoretical frameworks and practical perspectives shaping the global health panorama, including how public health issues are addressed by international and community organizations in developing countries*

| | | |
|---|---|---|
| 0101 | Hassanatu Blake<br>TuTh 11:00am - 12:15pm | Seats (Total: 20)<br>SPH 0116A |

**GBHL210** **Careers in Global Health**

*Recommended: Sophomore standing or higher.*

*Introduction to the global health careerscape: leading organizations in the field, current and emerging trends, and essential skills for Global Health professionals. Familiarization with resources for career exploration and opportunities to gain relevant experience. Students will identify opportunities to build their professional network and gain experience as they prepare for global health experiential learning through research, internships, or field work.*

| | | |
|---|---|---|
| 0101 | Catherine Donohoe<br>W 4:00pm - 5:15pm | Seats (Total: 30)<br>SPH 0121 |

# GEMS Gemstone Fall 2024

**GEMS100** **Freshman Honors Colloquium: Introduction to Gemstone**

*Restriction: Must be in the Gemstone program.*

*Orienting new Gemstone students to the university and to the program through a variety of team building activities, resources, and skill exploration exercises. Students will also examine and discuss areas such as liberal education, diversity, service, arts, current events, academic integrity, and leadership style.*

| | | |
|---|---|---|
| 0101 | David Lovell, Allison Lansverk, Brianna Lucas<br>Tu 11:00am - 12:15pm | Seats (Total: 9)<br>ELL 0102 |
| 0102 | Allison Lansverk, Brianna Lucas, David Lovell<br>Tu 12:30pm - 1:45pm | Seats (Total: 9)<br>ELL 0102 |
| 0103 | David Lovell, Allison Lansverk, Brianna Lucas<br>Tu 2:00pm - 3:15pm | Seats (Total: 9)<br>ELL 0100A |
| 0104 | Brianna Lucas, David Lovell, Allison Lansverk<br>Tu 3:45pm - 5:00pm | Seats (Total: 9)<br>ELL 0100A |
| 0106 | David Lovell, Brianna Lucas, Allison Lansverk<br>W 12:30pm - 1:45pm | Seats (Total: 9)<br>ELL 0100A |

| | | |
|---|---|---|
| 0107 | David Lovell, Allison Lansverk, Brianna Lucas<br>W 3:30pm - 4:45pm | Seats (Total: 9)<br>ELL 0100A |
| 0108 | David Lovell, Allison Lansverk, Brianna Lucas<br>W 4:45pm - 6:00pm | Seats (Total: 9)<br>ELL 0102 |
| 0109 | David Lovell, Allison Lansverk, Brianna Lucas<br>Th 9:30am - 10:45am | Seats (Total: 9)<br>ELL 0102 |
| 0110 | Allison Lansverk, Brianna Lucas, David Lovell<br>Th 12:30pm - 1:45pm | Seats (Total: 9)<br>ELL 0102 |
| 0111 | David Lovell, Allison Lansverk, Brianna Lucas<br>Th 2:00pm - 3:15pm | Seats (Total: 9)<br>ELL 0100A |
| 0112 | Allison Lansverk, Brianna Lucas, David Lovell<br>Th 5:00pm - 6:15pm | Seats (Total: 9)<br>ELL 0102 |
| 0113 | Brianna Lucas, David Lovell, Allison Lansverk<br>F 9:15am - 10:30am | Seats (Total: 9)<br>ELL 0102 |
| 0115 | David Lovell, Allison Lansverk, Brianna Lucas<br>F 11:15am - 12:30pm | Seats (Total: 9)<br>ELL 0102 |

**GEMS202** **Team Dynamics and Research Methodology**

*Prerequisite: GEMS100, GEMS102, and GEMS104. Corequisite: GEMS296. Restriction: Must be in the Gemstone program; and sophomore standing or higher.*

*This experiential course is designed to foster an understanding of effective team dynamics and basic research methodology. It will teach skills applicable to Gemstone team research and the writing of a team thesis. Upperclass Gemstone students serve as discussion facilitators. Students participate in their Gemstone teams and develop a draft of their team thesis proposal.*

| | | |
|---|---|---|
| 0101 | Allison Lansverk | Seats (Total: 168) |
| | Tu 5:00pm - 6:30pm | EGR 1202 |
| | Contact instructor or department for details. | |

**GEMS208A** **Special Topics in Leadership and Team Development; Team Dynamics and Research Methodology: First Time Section Leader**

*Principles, methods and types of leadership and team development with an emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.*

Restriction: Must be in the Gemstone program.

| | | |
|---|---|---|
| 0101 | Allison Lansverk | Seats (Total: 14) |
| | Contact instructor or department for details. | |

**GEMS208B** **Special Topics in Leadership and Team Development; Team Dynamics and Research Methodology: Returner Section Leader**

*Principles, methods and types of leadership and team development with an emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.*

Restriction: Must be in the Gemstone program.

| | | |
|---|---|---|
| 0101 | Allison Lansverk | Seats (Total: 14) |
| | Class time/details on ELMs | ONLINE |

**GEMS208C** **Special Topics in Leadership and Team Development; Introduction to Gemstone: First Time Section Leader**

*Principles, methods and types of leadership and team development with an emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.*

Restriction: Must be in the Gemstone program. These classes are scheduled in the Ellicott building.

| | | |
|---|---|---|
| 0101 | Allison Lansverk | Seats (Total: 23) |
| | Contact instructor or department for details. | |

**GEMS208D** **Special Topics in Leadership and Team Development; Introduction to Gemstone: Returner Section Leader**

*Principles, methods and types of leadership and team development with an emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.*

Restriction: Must be in the Gemstone program. These classes are scheduled in the Ellicott building.

| | | |
|---|---|---|
| 0101 | Allison Lansverk | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**GEMS208J** **Special Topics in Leadership and Team Development; Gems Camp**

*Principles, methods and types of leadership and team development with an emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.*

| | | |
|---|---|---|
| 0101 | Allison Lansverk | Seats (Total: 24) |
| | Contact instructor or department for details. | |

**GEMS208K** **Special Topics in Leadership and Team Development; GEMS Connect**

*Principles, methods and types of leadership and team development with an emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.*

Restriction: Must be in the Gemstone program.

| | | |
|---|---|---|
| 0101 | Allison Lansverk | Seats (Total: 50) |
| | Contact instructor or department for details. | |

**GEMS208P** **Special Topics in Leadership and Team Development; Gemstone Leadership Council**

*Principles, methods and types of leadership and team development with an emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.*

| | | |
|---|---|---|
| 0101 | Allison Lansverk | Seats (Total: 20) |
| | Contact instructor or department for details. | |

**GEMS208Q** **Special Topics in Leadership and Team Development; Facilitator TA**

*Principles, methods and types of leadership and team development with an emphasis on group discussion and decision making. Reading, discussion and exploration of the basic team concept, communications for winning scenarios, goal setting, problem solving, conflict resolution and research methods.*

| | | |
|---|---|---|
| 0101 | Jazmin Pichardo | Seats (Total: 2) |
| | Contact instructor or department for details. | |

**GEMS296** **Team Project Seminar I**

*Prerequisite: GEMS100, GEMS102, and GEMS104. Corequisite: GEMS202. Restriction: Must be in the Gemstone program with sophomore standing in a research team.*

*This is the first of six seminars during which Gemstone students carry out multidisciplinary research with the guidance of a faculty mentor. The teams develop their working relationship, start their literature search, define their research question, and set short & long term goals.*

| | | |
|---|---|---|
| 0101 | Hannah Zierden, Eric Haag<br>Contact instructor or department for details. | Seats (Total: 14) |
| 0102 | Mohammad Nayeem Teli<br>W 3:00pm - 3:50pm | Seats (Total: 14)<br>ONLINE |
| 0103 | Norberto Gonzalez- Juarbe<br>F 4:30pm - 5:20pm | Seats (Total: 14)<br>MCB 2135A |
| 0104 | Abhinav Shrivastava<br>M 5:00pm - 5:50pm | Seats (Total: 14)<br>ELL 0102 |
| 0105 | Hector Alcala<br>W 6:00pm - 6:50pm | Seats (Total: 14)<br>SPH 1234 |
| 0106 | Massimo Ricotti<br>M 5:30pm - 6:20pm | Seats (Total: 14)<br>PSC 1136 |
| 0107 | Reza Ghodssi<br>F 4:00pm - 4:50pm | Seats (Total: 14)<br>Location: TBA |
| 0108 | Nikhil Chopra<br>Tu 3:20pm - 4:20pm | Seats (Total: 14)<br>ONLINE |
| 0109 | Kimberly Stroka<br>M 8:00am - 8:50am | Seats (Total: 14)<br>AJC 3104 |
| 0110 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 14) |
| 0111 | Alisa Clyne<br>M 5:10pm - 6:00pm | Seats (Total: 14)<br>ONLINE |
| 0112 | Xin Zan<br>Th 12:30pm - 1:20pm | Seats (Total: 14)<br>AVW 2328 |

| | | |
|---|---|---|
| 0113 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 14) |
| 0114 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 14) |
| 0115 | David Lovell<br>Contact instructor or department for details. | Seats (Total: 5) |

**GEMS297** **Team Project Seminar II**

*Restriction: Must be in the Gemstone program with sophomore standing in a research team.*

*This is the second of six seminars during which Gemstone students carry out interdisciplinary research with the guidance of a faculty mentor. The team develops its website, prepares and presents its research proposal and begins its research project.*

| | | |
|---|---|---|
| 0101 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 14) |
| 0113 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |

**GEMS396** **Team Project Seminar III**

*Prerequisite: GEMS297. Restriction: Must be in the Gemstone program with junior standing in a research team.*

*This is the third of six seminars during which Gemstone students carry out interdisciplinary research with the guidance of a faculty mentor. The team presents its progress at the Gemstone Colloquia.*

| | | |
|---|---|---|
| 0101 | Heng Huang<br>M 5:00pm - 5:50pm<br>Tu 11:00am - 11:50am | Seats (Total: 14)<br>ESJ B0322<br>IRB 4137 |
| 0102 | Birthe Kjellerup Shirtliff<br>Th 4:30pm - 5:20pm<br>Th 5:30pm - 6:20pm | Seats (Total: 14)<br>EGR 1179<br>EGR 1179 |
| 0103 | Giuliano Scarcelli<br>Tu 8:15am - 9:05am<br>Class time/details on ELMs | Seats (Total: 14)<br>AJC 4104<br>ONLINE |
| 0104 | Erik Nesse<br>W 1:00pm - 1:50pm<br>F 3:00pm - 3:50pm | Seats (Total: 14)<br>ONLINE<br>ONLINE |

| | | |
|---|---|---|
| 0105 | Andrew Schiffmacher<br>Tu 5:00pm - 5:50pm<br>W 4:30pm - 5:20pm | Seats (Total: 14)<br>ONLINE<br>ONLINE |
| 0106 | Becky Epanchin-Niell<br>W 5:30pm - 6:20pm<br>F 1:00pm - 1:50pm | Seats (Total: 14)<br>JMZ 2120<br>HBK 0123 |
| 0107 | Michael Otte<br>M 3:00pm - 3:50pm<br>Contact instructor or department for details. | Seats (Total: 14)<br>Location: TBA |
| 0108 | Philip DeShong<br>Th 5:00pm - 5:50pm<br>Class time/details on ELMs | Seats (Total: 14)<br>CHM 4507<br>ONLINE |
| 0109 | Veronica Kang<br>Class time/details on ELMs<br>Class time/details on ELMs | Seats (Total: 14)<br>ONLINE<br>ONLINE |
| 0110 | Lucas Butler<br>Contact instructor or department for details.<br>TBA | Seats (Total: 14)<br>EDU 2203 |
| 0111 | Johan Larsson<br>Th 4:00pm - 4:50pm<br>Tu 4:00pm - 4:50pm | Seats (Total: 14)<br>EGR 2162<br>ONLINE |
| 0112 | Yanjin Zhang<br>F 3:00pm - 3:50pm<br>M 7:00pm - 7:50pm | Seats (Total: 14)<br>HBK 1112<br>HBK 1112 |
| 0113 | Erin Tran, Youssef Kousa<br>W 5:30pm - 6:30pm<br>Tu 7:00pm - 7:50pm | Seats (Total: 14)<br>MCB 2119<br>ESJ B0322 |
| 0114 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 14) |
| 0115 | David Lovell<br>Contact instructor or department for details. | Seats (Total: 5) |

**GEMS397 Team Project Seminar IV**

*Prerequisite: GEMS396. Restriction: Must be in the Gemstone program with junior standing in a research team.*

*This is the fourth of six seminars during which Gemstone students carry out interdisciplinary research with the guidance of a faculty mentor. The team further develops its website. Also they will prepare and present the team project in the poster session of Undergraduate Research Day.*

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|---|---|---|
| 0113 | David Lovell<br>Contact instructor or department for details. | Seats (Total: 5) |

**GEMS496** **Project Writing Seminar**

*Prerequisite: GEMS397. Restriction: Must be in the Gemstone program.*

*This is the fifth of six seminars during which Gemstone students carry out research with the guidance of a faculty mentor. The team finishes the analysis of their data and writes and edits its team thesis.*

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|---|---|---|
| 0101 | Anil Deane<br>M 6:30pm - 7:20pm<br>M 7:30pm - 8:20pm | Seats (Total: 14)<br>ATL 4364<br>ATL 4364 |
| 0102 | Avik Dutt<br>Tu 7:00pm - 7:50pm<br>F 1:00pm - 1:30pm | Seats (Total: 14)<br>PHYS 2219<br>PHYS 2219 |
| 0103 | Fernando Raffan Montoya<br>Tu 3:30pm - 4:20pm<br>W 3:00pm - 3:50pm | Seats (Total: 14)<br>JMP 3106<br>JMP 3216 |
| 0104 | Sylvette La Touche-Howard<br>M 3:30pm - 4:20pm<br>Class time/details on ELMs | Seats (Total: 14)<br>SPH 2242H<br>ONLINE |
| 0105 | Sahil Shah<br>Th 6:30pm - 7:20pm<br>F 1:00pm - 1:50pm | Seats (Total: 14)<br>Location: TBA<br>ONLINE |
| 0106 | Peter Sunderland<br>M 5:30pm - 6:20pm<br>F 3:00pm - 3:50pm | Seats (Total: 14)<br>ONLINE<br>Location: TBA |
| 0107 | Myles Poulin<br>F 3:00pm - 3:50pm<br>M 4:00pm - 4:50pm | Seats (Total: 14)<br>HBK 0125<br>PLS 1158 |

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|---|---|---|
| 0108 | Mohammad Hajiaghayi<br>M 5:30pm - 6:20pm<br>Class time/details on ELMs | Seats (Total: 14)<br>ONLINE<br>ONLINE |
| 0109 | Brantley Hall<br>M 7:00pm - 7:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 14)<br>ONLINE<br>ONLINE |
| 0110 | Allan Doctor, David Lovell<br>MW 8:00am - 8:50am | Seats (Total: 14)<br>ONLINE |
| 0111 | Huang Chiao Huang<br>M 5:00pm - 5:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 14)<br>ONLINE<br>AJC 4104 |
| 0112 | Dana Dachman-Soled<br>MW 3:30pm - 4:20pm | Seats (Total: 14)<br>JMZ 2120 |
| 0113 | Derek Paley<br>F 2:00pm - 3:50pm | Seats (Total: 14)<br>Location: TBA |
| 0114 | Daniel Stein<br>M 3:00pm - 3:50pm<br>M 4:00pm - 4:50pm | Seats (Total: 14)<br>MCB 1123<br>MCB 1123 |

**GEMS497** **Team Thesis Defense**

*Prerequisite: GEMS396. Restriction: Must be in the Gemstone program.*

*Gemstone teams will complete the team research project and thesis. The team will formally present the thesis to experts in the area of interest at a Team Thesis Conference before final submission.*

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|---|---|---|
| 0107 | Myles Poulin<br>Contact instructor or department for details. | Seats (Total: 14) |
| 0110 | Po-Yen Chen<br>M 5:30pm - 6:20pm<br>M 6:30pm - 7:20pm | Seats (Total: 14)<br>Location: TBA<br>Location: TBA |
| 0113 | David Lovell<br>Contact instructor or department for details. | Seats (Total: 5) |

**GEOG140** **Natural Disasters: Earthquakes, Floods, and Fires**

*Catastrophic Environmental Events (CCE) that are becoming more common in this time of global environmental change and it is essential that today's students be equipped with the knowledge and skills to be leaders as we, as a society, understand the upheaval that these CCEs are causing. Students will examine how CEEs shape human society and ecosystem from the interdisciplinary perspective afforded by the field of Geography. Students will use the latest geographic science concepts and techniques in exploring these events. Using satellite imagery they will gain a multi-scale perspective of the ecological and societal aspects of the events.*

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|---|---|---|
| 0101 | Keith Yearwood<br>MW 1:00pm - 1:50pm<br>Class time/details on ELMs | Seats (Total: 250)<br>ARC 0204<br>ONLINE |
| FC01 | Keith Yearwood<br>MW 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 48)<br>TWS 0236 |

**GEOG170** **Mapping our Digital World**

*Introduction to technical methods used in gathering, analyzing, and mapping geospatial information for applications such as urban mobility, environmental monitoring, situational awareness, and disaster management. Topics include Geographic Information Systems (GIS), cartography, map projections, satellite and airborne remote sensing, the global positioning system (GPS), and introductory statistics and probability. The course is a gateway to more advanced technical classes in geospatial science.*

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|---|---|---|
| 0101 | Naijun Zhou<br>MW 2:00pm - 2:50pm<br>Class time/details on ELMs | Seats (Total: 150)<br>LEF 2205<br>ONLINE |

**GEOG172** **Earth From Space**

*Earth observations from space enable the mapping and monitoring of our changing planet. This survey course reviews current observational capabilities and examines scientific applications in quantifying global environmental change. Drivers and outcomes of key dynamics will be illustrated and discussed, including sea and continental ice loss, deforestation, ocean warming, urbanization, agricultural expansion and intensification, and vegetation response to climate change.*

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|---|---|---|
| FC01 | Rachel Lamb<br>TuTh 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>KEY 0125 |

**GEOG201** **Geography of Environmental Systems**

*A systematic introduction to the processes and associated forms of the atmosphere and earth's surfaces emphasizing the interaction between climatology, hydrology and geomorphology.*

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|---|---|---|---|
| 0101 | Chris Justice<br>TuTh 12:30pm - 1:45pm | Seats (Total: 240)<br>ESJ 0224 | |

**GEOG202** **Introduction to Human Geography**

*Introduction to what geographers do and how they do it. Systematic study of issues regarding social and cultural systems from a global to a local scale. Looks at the distribution of these variables and answers the question "Why here, and not there"?*

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|---|---|---|---|
| 0101 | Laixiang Sun<br>MW 3:00pm - 3:50pm<br>Class time/details on ELMs | Seats (Total: 200)<br>LEF 2205<br>ONLINE | |

**GEOG211** **Geography of Environmental Systems Laboratory**

*Prerequisite: Must have completed or be concurrently enrolled in GEOL120, GEOL100, or GEOG201.*

*A laboratory course to accompany GEOG 201. Analysis of the components of the earth's energy balance using basic instrumentation; weather map interpretation; soil analysis; the application of map and air photo interpretation techniques to landform analysis.*

This is a 2 hr, 1 credit lab which parallels GEOG 201; Required for GEOG majors; optional for non-majors.

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|---|---|---|---|
| 0101 | Chris Justice, Baobao Liu<br>Class time/details on ELMs | Seats (Total: 24)<br>ONLINE | Lab |
| 0201 | Chris Justice, Baobao Liu<br>Class time/details on ELMs | Seats (Total: 24)<br>ONLINE | Lab |
| 0301 | Chris Justice, Baobao Liu<br>Class time/details on ELMs | Seats (Total: 24)<br>ONLINE | Lab |
| 0401 | Chris Justice, Baobao Liu<br>Class time/details on ELMs | Seats (Total: 24)<br>ONLINE | Lab |
| 0501 | Chris Justice, Baobao Liu<br>Class time/details on ELMs | Seats (Total: 24)<br>ONLINE | Lab |
| 0601 | Chris Justice, Judith Rakowski<br>Class time/details on ELMs | Seats (Total: 24)<br>ONLINE | Lab |
| 0701 | Judith Rakowski, Chris Justice<br>Class time/details on ELMs | Seats (Total: 24)<br>ONLINE | Lab |

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|---|---|---|---|
| 0801 | Chris Justice, Judith Rakowski<br>Class time/details on ELMs | Seats (Total: 24)<br>ONLINE | Lab |
| 0901 | Chris Justice, Judith Rakowski<br>Class time/details on ELMs | Seats (Total: 24)<br>ONLINE | Lab |
| 1001 | Judith Rakowski, Chris Justice<br>Class time/details on ELMs | Seats (Total: 24)<br>ONLINE | Lab |

**GEOG272** **Introduction to Earth Observation Science**

*Credit only granted for: GEOG272 or GEOG372. Formerly: GEOG372.*

*Concepts and principles of Earth observation and remote sensing in relation to photographic, thermal infrared and radar imaging. Methods of obtaining quantitative information from remotely-sensed images. Interpretation of remotely-sensed images emphasizing the study of spatial and environmental relationships.*

Students must pay a $40.00 laboratory materials fee.

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|---|---|---|---|
| 0101 | Catherine Nakalembe<br>MW 9:00am - 9:50am<br>F 11:00am - 12:50pm | Seats (Total: 25)<br>TWS 0310<br>LEF 1136 | Lab |
| 0102 | Catherine Nakalembe<br>MW 9:00am - 9:50am<br>F 11:00am - 12:50pm | Seats (Total: 25)<br>TWS 0310<br>LEF 1138 | Lab |
| 0103 | Catherine Nakalembe<br>MW 9:00am - 9:50am<br>Th 9:30am - 11:20am | Seats (Total: 25)<br>TWS 0310<br>LEF 1136 | Lab |
| 0104 | Catherine Nakalembe<br>MW 9:00am - 9:50am<br>Th 9:30am - 11:20am | Seats (Total: 25)<br>TWS 0310<br>LEF 1138 | Lab |

**GEOG276** **Principles of Python Programming and Geocomputing**

*Introduces conceptual and practical aspects of scientific computing using the Python programming language. The main focus is on developing proficiency for the basic elements of the development environment, foundational syntax including variables, logical operators, looping, conditional statements, nesting, and common programming patterns for mathematical and textual computing. In addition, essential data structures and functionality for scientific computing, such as arrays, dataframes, and data visualization will be introduced. Throughout the course, students will also become exposed to various applications in the domain of the social and environmental sciences.*

Students must pay a $40.00 laboratory materials fee.

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|---|---|---|---|
| 0101 | Xin Tao<br>MW 11:00am - 11:50am<br>W 4:00pm - 5:50pm | Seats (Total: 24)<br>LEF 1158<br>LEF 1136 | <br><br>Lab |
| 0102 | Xin Tao<br>MW 11:00am - 11:50am<br>W 4:00pm - 5:50pm | Seats (Total: 24)<br>LEF 1158<br>LEF 1138 | <br><br>Lab |
| FC01 | Guangxiao Hu<br>MW 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 20)<br>LEF 1136 | |

**GEOG330** **As the World Turns: Society and Sustainability in a Time of Great Change**

*Credit only granted for: GEOG330, GEOG360, or GEOG362. Formerly: GEOG362.*

*Cultural geography course on society and sustainability. Culture is the basic building block that is key to sustainability of societies. Course will cover sustainability of societies on different scales, examining local, regional, and worldwide issues. Sustainability will be examined as a key element of environmental sustainability. How societies adjust to rapid world change will be examined as a positive and/or negative factor in sustainability.*

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|---|---|---|---|
| 0101 | Giovanni Baiocchi<br>MW 1:00pm - 1:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 25)<br>ESJ 2204<br>LEF 1201 | <br><br>Discussion |
| 0102 | Giovanni Baiocchi<br>MW 1:00pm - 1:50pm<br>F 9:00am - 9:50am | Seats (Total: 25)<br>ESJ 2204<br>LEF 1201 | <br><br>Discussion |
| 0103 | Giovanni Baiocchi<br>MW 1:00pm - 1:50pm<br>F 11:00am - 11:50am | Seats (Total: 25)<br>ESJ 2204<br>LEF 1201 | <br><br>Discussion |
| 0104 | Giovanni Baiocchi<br>MW 1:00pm - 1:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 25)<br>ESJ 2204<br>LEF 1201 | <br><br>Discussion |
| 0105 | Giovanni Baiocchi<br>MW 1:00pm - 1:50pm<br>F 10:00am - 10:50am | Seats (Total: 25)<br>ESJ 2204<br>LEF 1201 | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 0106 | Giovanni Baiocchi | Seats (Total: 25) | |
| | MW 1:00pm - 1:50pm | ESJ 2204 | |
| | F 1:00pm - 1:50pm | LEF 1201 | Discussion |

**GEOG371** **Programming for Image Analysis**

*Prerequisite: GEOG276, GEOG306, and GEOG272.*

*Introduces application programing interface (API) functions and image processing techniques for efficient processing of satellite images. The main programing language of the course is Python. The course will use a Geospatial Data Abstraction Library (GDAL) which provides a unified way of manipulating images incorporating geospatial information. For image processing, the course will use Python-based libraries such as scikit-image and OpenCV.*

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|---|---|---|---|
| 0101 | Sergii Skakun | Seats (Total: 25) | |
| | TuTh 9:30am - 10:45am | LEF 1158 | |

**GEOG373** **Geographic Information Systems**

*Characteristics and organization of geographic data; creation and use of digital geospatial databases; metadata; spatial data models for thematic mapping and map analysis; use of geographic information system in society, government, and business. Practical training with use of advanced software and geographic databases.*

Students must pay a $40.00 laboratory materials fee.

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|---|---|---|---|
| 0101 | Naijun Zhou | Seats (Total: 25) | |
| | MW 10:00am - 10:50am | TWS 1310 | |
| | F 9:00am - 10:50am | LEF 1138 | Lab |
| | *Open to GEOG, GIS, SDS-GEOG, and ENSP-Coastal, Land Use, and Global majors, or GIS and Remote Sensing minors only.* | | |
| 0102 | Naijun Zhou | Seats (Total: 25) | |
| | MW 10:00am - 10:50am | TWS 1310 | |
| | F 1:00pm - 2:50pm | LEF 1136 | Lab |
| 0103 | Naijun Zhou | Seats (Total: 25) | |
| | MW 10:00am - 10:50am | TWS 1310 | |
| | F 3:00pm - 4:50pm | LEF 1136 | Lab |

**GEOG384** **Internship in Geography I**

(Perm req)

*Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and (ENGL393 or ENGL390). Restriction: Must be in Geography program.*

*Supervised field training to provide career experience. Introduction to professional level activities, demands, opportunities. Placement at a public agency, non-profit organization, or private firm. Participation requires application to the internship advisor in preceding semester.*

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|---|---|---|
| 0101 | Keith Yearwood | Seats (Total: 25) |
| | Contact instructor or department for details. | |

**GEOG385** **Internship in Geography II**

(Perm req)

*Prerequisite: GEOG211, GEOG306, GEOG212, and GEOG201; and must have completed a Junior (Professional) English course. Restriction: Must be in Geography program.*

*Supervised field training to provide career experience. Introduction to professional-level activities, demands, opportunities. Placement at a public agency, nonprofit organization, or private firm. Participation requires application to the internship advisor in preceding semester.*

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|---|---|---|
| 0101 | Keith Yearwood | Seats (Total: 25) |
| | Contact instructor or department for details. | |

**GEOG398** **Special Topics in Geography**

(Perm req)

*An introductory course dealing with special topics in geography.*

**Contact department for information to register for this course.**

**GEOG418** **Field and Laboratory Techniques in Environmental Science**

(Perm req)

*Lecture and laboratory learning each week. A variable credit course that introduces field and laboratory analyses in environmental science. Individual learning contract are developed with instructor.*

Lecture and laboratory learning each week. A variable credit course that introduces field and laboratory analyses in environmental science. Individual learning contracts are developed with instructor Students must pay a $300 laboratory materials fee

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|---|---|---|
| 0101 | Ralph Dubayah | Seats (Total: 20) |
| | W 4:00pm - 6:30pm | HJP 2242 |

**GEOG431** **Culture and Natural Resource Management**

*Credit only granted for: GEOG421 or GEOG431. Formerly: GEOG421.*

*Basic issues concerning the natural history of humans from the perspective of the geographer. Basic components of selected behavioral and natural systems, their evolution and adaptation, and survival strategies.*

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|---|---|---|
| 0101 | Kuishuang Feng | Seats (Total: 25) |
| | TuTh 11:00am - 12:15pm | LEF 1158 |

**GEOG442** **Biogeography and Environmental Change**

*Prerequisite: GEOG301. And GEOG201 and GEOG211; or permission of BSOS-Geography department. Jointly offered with GEOG642. Credit only granted for: GEOG642, GEOG442, GEOG447, or GEOG484. Formerly: GEOG4 47.*

*Biogeographical topics of global significance, including a consideration of measurement techniques, and both descriptive and mechanistic modeling. Topics may include: scale in biogeography, biodiversity, carbon geography, climate and vegetation, interannual variability in the biosphere, land cover, global biospheric responses to climate change, NASA's Mission to Planet Earth and Earth Observation System. The class focuses on both natural and athropogenic controls, impacts of biography on climate and ecosystem services and different methods in biogeography.*

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|---|---|---|
| 0101 | Laura Duncanson | Seats (Total: 30) |
| | TuTh 12:30pm - 1:45pm | LEF 1158 |

**GEOG471** **Technologies for Computational Earth Observations**

*Prerequisite: GEOG371 or permission of instructor.*

*An introduction and exploration of cutting-edge novel remote sensing datasets and their associated science uses and applications. We present several modules focused on different technologies (multispectral, lidar, radar, thermal), and for each have both hands-on lab assignments, lectures, and applications case studies. Data fusion techniques, and common analysis and processing pitfalls are presented and discussed. Hands-on computer labs allow students to explore each dataset via online tutorials. After all datasets are presented, students download their own datasets in an area of interest to them, and work toward a unique student-driven project for presentation to the class. The sky is literally the limit in this interactive course which provides a research experience opportunity for students in a supportive atmosphere.*

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|---|---|---|
| 0101 | John Armston | Seats (Total: 25) |
| | MW 2:00pm - 2:50pm | LEF 1158 |
| | Class time/details on ELMs | ONLINE |

**GEOG475** **Geographic Visualization and Digital Mapping**

*Prerequisite: GEOG373 and GEOG306.*

*An overview of the basic concepts and techniques that underlie digital map making and the broader field of geographic visualization for intermediate GIS users. This includes the use of color, map symbolization, map layout, and also the contribution to geographic visualization from the fields of scientific visualization, information visualization, and cognition. Fundamentals of dynamic map design and web mapping will be introduced through the use of animated and interactive maps.*

Students must pay a $40.00 laboratory materials fee.

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|---|---|---|---|
| 0101 | Kathleen Stewart<br>MW 3:00pm - 3:50pm<br>F 9:00am - 10:50am | Seats (Total: 24)<br>LEF 1158<br>LEF 1136 | Lab |
| 0102 | Kathleen Stewart<br>MW 3:00pm - 3:50pm<br>F 1:00pm - 2:50pm | Seats (Total: 24)<br>LEF 1158<br>LEF 1138 | Lab |

**GEOG498** **Topical Investigations**

(Perm req)

*Independent study under individual guidance.*

**Contact department for information to register for this course.**

**GEOG601** **The Nature and Practice of Science**

(Perm req)

*Restriction: Permission of BSOS-Geography department. Credit only granted for: GEOG601 or GEOG788N. Formerly: GEOG788N.*

*Introduces students to the nature and practice of science in physical and human geography, including practical methods for research productivity, professional, societal and ethical obligations of scientists, the philosophy of science, and the scientific literature. Students will prepare and critically evaluate research proposals.*

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|---|---|---|
| 0101 | Giovanni Baiocchi<br>M 3:00pm - 5:30pm | Seats (Total: 30)<br>LEF 2166 |

**GEOG608** **Comprehensive Portfolio Assessment Summary**

*Evaluation of a PhD student's portfolio.*

**Contact department for information to register for this course.**

**GEOG642** **Biogeography and Environmental Change**

*Restriction: Permission of BSOS-Geography department. Jointly offered w ith GEOG442. Credit only granted for: GEOG788C, GEOG642, or GEOG442. Formerly: GEOG788C.*

*Biogeographical topics of global significance, including a consideration of measurement techniques, and both descriptive and mechanistic modeling. Topics may include: scale in biogeography, biodiversity, carbon geography, climate and vegetation, interannual variability in the biosphere, land cover, global biospheric responses to climate change, NASA's Mission to Planet Earth and Earth Observation System. The class focuses on both natural and athropogenic controls, impacts of biography on climate and ecosystem services and different methods in biogeography.*

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|---|---|---|
| 0101 | Laura Duncanson<br>TuTh 12:30pm - 1:45pm | Seats (Total: 10)<br>LEF 1158 |

**GEOG652** **Digital Image Processing and Analysis**

*Restriction: Must be in Geospatial Information Sciences (Master's) program; or must be in the Geospatial Information Sciences (Graduate Certificate) program.*

*Digital image processing and analysis applied to satellite and aircraft land remote sensing data. Consideration is given to preprocessing steps including calibration and geo registration. Analysis methods include digital image exploration, feature extraction thematic classification, change detection, and biophysical characterization. One or more application examples may be reviewed.*

Students must pay a $40 lab fee.

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|---|---|---|---|
| PGS1 | Xin Tao | Seats (Total: 35) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | M 5:30pm - 8:00pm | TWS 0201 | |
| | Tu 5:30pm - 8:00pm | TWS 0201 | Lab |
| | *Must be in Graduate Programs in Geospatial Information Sciences. Golden ID students are not eligible for this section.* | | |
| PLG1 | Xin Tao | Seats (Total: 20) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | M 5:30pm - 8:00pm | ONLINE | |
| | Tu 5:30pm - 8:00pm | ONLINE | Lab |
| | *Must be in Graduate Programs in Geospatial Information Sciences, Online. Golden ID students are not eligible for this section.* | | |

**GEOG653** **Spatial Analysis**

*Prerequisite: GEOG579; or students who have taken courses with comparable content may contact the department. Restriction: Must be in Geospatial Information Sciences (Master's) program; or must be in the Geospatial Information Sciences (Graduate Certificate) program.*

*Methods of spatial analysis including measuring aspects of geometric features and identifying spatial patterns of geospatial objects that are represented as point, line, network, areal data, and 3-D surfaces.*

Students must pay a $40 lab fee.

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|---|---|---|---|
| PGS1 | Jianguo Ma | Seats (Total: 35) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | W 5:30pm - 8:00pm | LEF 1166 | |
| | Th 5:30pm - 7:30pm | LEF 1166 | Lab |
| | *Must be in Graduate Programs in Geospatial Information Sciences. Golden ID students are not eligible for this section.* | | |
| PLG1 | Jianguo Ma | Seats (Total: 25) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | W 5:30pm - 8:00pm | ONLINE | |
| | Th 5:30pm - 7:30pm | ONLINE | Lab |
| | *Must be in Graduate Programs in Geospatial Information Sciences, Online. Golden ID students are not eligible for this section.* | | |

**GEOG654** **GIS and Spatial Modeling**

*Prerequisite: GEOG653. Restriction: Must be in Geospatial Information Sciences (Master's) program; or must be in Graduate Certificate: Professional Studies-Geospatial Information Sciences.*

*Provide foundations and understanding on various issues related to modeling and simulation in GIS context. It will addresses the concepts, tools, and techniques of GIS modeling, and presents modeling concepts and theory as well as provides opportunities for hands-on model design, construction, and application. The focus will be on raster-based modeling. This course is also application-orientated, particularly in these fields such as terrain modeling, LULC modeling, hydrological modeling, suitability modeling, etc.*

Students must pay a $40.00 lab fee.

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|---|---|---|---|
| PGS1 | Jonathan Resop | Seats (Total: 35) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | W 5:30pm - 8:00pm | LEF 1158 | |
| | Th 5:30pm - 8:00pm | LEF 1158 | Lab |
| | *Must be in Graduate Programs in Geospatial Information Sciences. Golden ID students are not eligible for this section.* | | |

| | | | |
|---|---|---|---|
| PLG1 | Jonathan Resop | Seats (Total: 25) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | W 5:30pm - 8:00pm | ONLINE | |
| | Th 5:30pm - 8:00pm | ONLINE | Lab |
| | *Must be in Graduate Programs in Geospatial Information Sciences, Online. Golden ID students are not eligible for this section.* | | |

**GEOG661 Fundamentals of Geospatial Intelligence**

*Geospatial Intelligence (GEOINT) is the collection, analysis, visualization and dissemination of geospatial information to support decision-making. This course introduces the fundamental knowledge required to become a successful GEOINT practitioner, including the history of the GEOINT discipline, the intelligence applications of remote sensing and Geographic Information Systems (GIS) technologies, and how GEOINT products are used to support national security and humanitarian missions. Upon completion of this course you will understand the roles that technology, policy, doctrine, government, and industry play in shaping the Geospatial Intelligence discipline, and develop the technical knowledge and domain expertise to create basic GEOINT products that provide context for decision makers.*

Students must pay a $40.00 laboratory materials fee.

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|---|---|---|---|
| PGS1 | Jonathon Hathaway | Seats (Total: 20) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | W 5:30pm - 8:00pm | LEF 1106 | |
| | Th 5:30pm - 8:00pm | LEF 1136 | Lab |
| | *Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence. Golden ID students are not eligible for this section.* | | |
| PLG1 | Jonathon Hathaway | Seats (Total: 15) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | W 5:30pm - 8:00pm | ONLINE | |
| | Th 5:30pm - 8:00pm | ONLINE | Lab |
| | *Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence, Online. Golden ID students are not eligible for this section.* | | |

**GEOG662 Advances in GIS and Remote Sensing**

*Restriction: Students taking the course must be familiar with data structures, basic GIS and RS concepts, and demonstrate basic understanding of using GIS and RS software. And must be enrolled in Geographical Sciences MPS or graduate certificate program; or permission of BSOS-Geography department.*

*Focuses on state-of-the-art advances in geographic information science and remote sensing as they support geospatial intelligence. Focus on synergies between GIS and remote sensing in informatics, computer science, and spatial engineering, and their application to problem domains in human systems, physical systems, and cyberspace. Advances in GIS presents recent advances regarding fundamental issues of geo-spatial information science (space and time, spatial analysis, uncertainty modeling and geo-visualization), and new scientific and technological research initiatives for geo-spatial information science (such as spatial data mining, mobile data modeling, and location-based services). Advances in remote sensing will provide opportunity to understand and work with latest developments in the Remote Sensing datasets. The curriculum covers wide range of remote sensing data interpretation and their processing techniques.*

Students must pay a $40.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| PGS1 | Ruibo Han | Seats (Total: 35) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | M 5:30pm - 8:00pm | LEF 1106 | |
| | Tu 5:30pm - 8:00pm | LEF 1106 | Lab |
| | *Must be in Graduate Programs in Geospatial Intelligence. Golden ID students are not eligible for this section.* | | |
| PLG1 | Ruibo Han | Seats (Total: 25) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | M 5:30pm - 8:00pm | ONLINE | |
| | Tu 5:30pm - 8:00pm | ONLINE | Lab |
| | *Must be in Graduate Programs in Geospatial Intelligence, Online. Golden ID students are not eligible for this section.* | | |

**GEOG686 Mobile GIS and Geocomputing**

*Prerequisite: Permission of BSOS-Geography department; or must be enrolled in Geographical Sciences MPS or graduate certificate program. Recommended: Students taking the course must be familiar with data structures, basic GIS concepts, and demonstrate basic understanding of object-oriented programming under GIS environment. Credit only granted for: GEOG477, GEOG498V, GEOG788V or GEOG777. Additional information: Tablets that run android and iOS will be loaned to registered students at no cost.*

*An introduction to mobile GIS, to the programming concepts underlying mobile GIS development, and to the design and implementation of a mobile GIS application. Covers how to develop, test, and publish mobile GIS native apps working across two mobile platforms: Android and iOS. Leverages the capabilities of JavaScript, Swift, Google maps, ArcGIS Server and runtime SDK to developing and publishing mobile GIS apps.*

| | | | |
|---|---|---|---|
| PGS1 | Ruibo Han | Seats (Total: 25) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | W 5:30pm - 8:00pm | LEF 0135 | |
| | Th 5:30pm - 8:00pm | LEF 0135 | Lab |
| | *Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence. Golden ID students are not eligible for this section.* | | |
| PLG1 | Ruibo Han | Seats (Total: 15) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | W 5:30pm - 8:00pm | ONLINE | |
| | Th 5:30pm - 8:00pm | ONLINE | Lab |
| | *Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence, Online. Golden ID students are not eligible for this section.* | | |

**GEOG688T** **Selected Topics in GIS; Technologies for Computational Earth Observations**

*Readings and discussion on selected topics in the field of Geographic Information Science (GIS).*

| | | | |
|---|---|---|---|
| 0101 | John Armston | Seats (Total: 10) | |
| | MW 2:00pm - 2:50pm | LEF 1158 | |
| | Class time/details on ELMs | ONLINE | |

**GEOG788** **Selected Topics in Geography**

(Perm req)

*Readings and discussion on selected topics in the field of geography.*

Repeatable to 6 credits if content differs.

**Contact department for information to register for this course.**

**GEOG788F** **Selected Topics in Geography; Deforestation, Land Grab, and Global Commodity Chains**

*Readings and discussion on selected topics in the field of geography.*

In today's globalized world, final products and consumption are increasingly met by global supply chains that often involve large geographical distances and lead to global environmental change, such as deforestation and other land cover change, all impacting important ecosystem services. This course will explore major trends of commodity trade, existing global trade database, environmental accounting approaches and models, and social and economic drivers of land cover and land use change with regard to land displacement and deforestation.

| | | | |
|---|---|---|---|
| 0101 | Kuishuang Feng | Seats (Total: 25) | |
| | Tu 2:30pm - 5:00pm | LEF 1158 | |

**GEOG789** **Independent Readings**

(Perm req)

*Independent reading as arranged between a graduate faculty member and graduate student.*

Repeatable to 6 credits if content differs.

**Contact department for information to register for this course.**

**GEOG790** **Internship in Geography**

*Field experience in the student's specialty in a Federal, state, or local agency or private business. Research paper required.*

**Contact department for information to register for this course.**

**GEOG797** **Professional Project**

*Restriction: Must be in Geospatial Information Sciences (Master's) program.*

*Data and materials can originate from an internship (internal or external) or from relevant work experience with current employer. Under direction of faculty advisor, students will prepare a project report containing explanation of the requirements for the work, technical account of the activities undertaken, including literature review, description of methods and approaches taken, a critical discussion of results, along with conclusions and recommendations developed from the project. Final project will consist of a full-fledged GIS application that is up and running and can be tested, providing potential employers with a portfolio demonstrating student's ability to manage and develop a GIS application in real world situations.*

Students must pay a $40 lab fee.

| | | | |
|---|---|---|---|
| PGS1 | Jianguo Ma<br>**Meets August 26, 2024 - November 15, 2024**<br>M 5:30pm - 8:00pm<br>Tu 5:30pm - 8:00pm | Seats (Total: 35)<br><br><br>LEF 1158<br>ONLINE | <br><br><br><br>Lab |
| | *Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence. Golden ID students are not eligible for this section. Students must meet with their program director and apply for graduation prior to registration.* | | |
| PLG1 | Jianguo Ma<br>**Meets August 26, 2024 - November 15, 2024**<br>M 5:30pm - 8:00pm<br>Tu 5:30pm - 8:00pm | Seats (Total: 35)<br><br><br>ONLINE<br>ONLINE | <br><br><br><br>Lab |
| | *Must be in Graduate Programs in Geospatial Information Sciences or Geospatial Intelligence, online. Golden ID students are not eligible for this section. Students must meet with their program director and apply for graduation prior to registration.* | | |

**GEOG798** **Selected Topics in Geography: Seminar Series; Departmental Seminar**

(Perm req)

*Readings and discussions on selected topics in the field of geography.*

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|---|---|---|
| 0101 | Leila De Floriani<br>Class time/details on ELMs | Seats (Total: 48)<br>ONLINE |

**GEOG799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**GEOG898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**GEOG899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# GEOL Geology Fall 2024

**GEOL100** **Physical Geology**

*Credit only granted for: GEOL100 or GEOL120. Additional information: CORE Distributive Studies Physical Science Laboratory Course only when taken concurrently with GEOL 110.*

*A general survey of the rocks and minerals composing the earth, its surface features and the agents that form them, and the dynamic forces of plate tectonics.*

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|---|---|---|
| 0101 | Tracey Centorbi<br>MWF 1:00pm - 1:50pm | Seats (Total: 99)<br>ATL 2324 |
| 0201 | Ricardo Arevalo<br>TuTh 2:00pm - 3:15pm | Seats (Total: 99)<br>TMH 0301 |

**GEOL104** **Dinosaurs: A Natural History**

*Dinosaurs, their evolution, and our understanding of their fossil record. Students will examine the geologic record and the tools used by paleontologists to determine: geologic ages and ancient environments; evolutionary history and extinctions; dinosaurian biology and behavior; and their survival as birds. Mechanisms of global change ranging from plate tectonics to asteroid impact will be discussed.*

| | | |
|---|---|---|
| 0101 | Thomas Holtz<br>MWF 10:00am - 10:50am | Seats (Total: 60)<br>EGR 0108 |

**GEOL110** **Physical Geology Laboratory**

*Prerequisite: Must have completed or be concurrently enrolled in GEOL120 or GEOL100. Additional information: CORE Distributive Studies Physical Science Laboratory Course only when taken concurrently with GEOL 100.*

*The basic materials and tools of physical geology stressing familiarization with rocks and minerals and the use of maps in geologic interpretations.*

Students must pay a $50 laboratory materials fee.

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|---|---|---|---|
| 0101 | Tracey Centorbi, Sophia Zipparo, Karla Nunez<br>Th 12:30pm - 3:30pm | Seats (Total: 24)<br>GEO 2106 | Lab |
| 0102 | Tracey Centorbi, Aisha Khatib<br>M 12:00pm - 3:00pm | Seats (Total: 24)<br>GEO 2106 | Lab |
| 0103 | Sophia Zipparo, Tracey Centorbi<br>Tu 12:30pm - 3:30pm | Seats (Total: 24)<br>GEO 2106 | Lab |
| 0104 | Aisha Khatib, Tracey Centorbi<br>Tu 3:30pm - 6:30pm | Seats (Total: 24)<br>GEO 2106 | Lab |
| 0106 | Tracey Centorbi, Yewon Lee<br>W 9:00am - 12:00pm | Seats (Total: 24)<br>GEO 2106 | Lab |
| 0107 | Tracey Centorbi, Yewon Lee<br>W 3:00pm - 6:00pm | Seats (Total: 24)<br>GEO 2106 | Lab |
| 0109 | Tracey Centorbi, Karla Nunez<br>Tu 9:00am - 12:00pm | Seats (Total: 24)<br>GEO 2106 | Lab |

**GEOL120** **Environmental Geology**

*Credit only granted for: GEOL100 or GEOL120.*

*A review of geologic factors underlying many environmental problems and the interactions between population and physical environment: geologic hazards, land-use planning, conservation, mineral resources, waste disposal, land reclamation, and the geologic aspects of health and disease. The course is aimed at lower division students in education and liberal arts, and should be useful to any student concerned with geologic perspectives of environmental problems.*

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|---|---|---|---|
| 0101 | Tracey Centorbi<br>TuTh 12:30pm - 1:45pm<br>M 3:00pm - 3:50pm | Seats (Total: 20)<br>KEB 1200<br>HBK 0123 | <br><br>Discussion |
| 0102 | Tracey Centorbi<br>TuTh 12:30pm - 1:45pm<br>M 4:00pm - 4:50pm | Seats (Total: 20)<br>KEB 1200<br>HBK 0123 | <br><br>Discussion |
| FC02 | Tracey Centorbi<br>TuTh 4:30pm - 5:45pm<br>F 10:00am - 10:50am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>ATL 1113<br>HBK 0125 | <br><br>Discussion |

**GEOL123** **Causes and Consequences of Global Change**

*Cross-listed with: AOSC123. Credit only granted for: AOSC123, GEOG123, or GEOL123.*

*Study of the major components of Earth's climate system and climate change history. Discussion of 21st century climate change prediction, mitigation and adaptation efforts.*

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|---|---|---|---|
| 0101 | Jeffrey Henrikson<br>MW 5:00pm - 5:50pm<br>F 11:00am - 11:50am | Seats (Total: 30)<br>ESJ 2212<br>ATL 2416 | <br><br>Discussion |
| 0102 | Jeffrey Henrikson<br>MW 5:00pm - 5:50pm<br>F 10:00am - 10:50am | Seats (Total: 30)<br>ESJ 2212<br>ATL 2416 | <br><br>Discussion |

**GEOL124** **Evolution of Life and Environment on Planet Earth**

*An exploration of how life has shaped Earth's physical environments, both in the contemporary Earth and over the long course of Earth history. Topics range from evidence for the origin and diversification of life and its impact on Earth environments to the mind-set and methods of the scientists who interpret it, and what those methods tell us about future interactions between life and the environment, both on Earth and in the Solar System.*

Restricted to students in Carillon Communities. Once registered, students need an electronic stamp from an advisor to drop the course.

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|---|---|---|---|
| 0101 | James Farquhar<br>TuTh 9:30am - 10:45am<br>W 2:00pm - 2:50pm | Seats (Total: 20)<br>ESJ 2309<br>PLS 1168 | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 0102 | James Farquhar<br>TuTh 9:30am - 10:45am<br>W 3:00pm - 3:50pm | Seats (Total: 20)<br>ESJ 2309<br>PLS 1168 | <br><br>Discussion |
| 0103 | James Farquhar<br>TuTh 9:30am - 10:45am<br>W 4:00pm - 4:50pm | Seats (Total: 20)<br>ESJ 2309<br>PLS 1168 | <br><br>Discussion |

**GEOL200** **Earth's Fury: Earthquakes, Volcanoes, and Tsunami**

*Earthquakes, volcanic eruptions, and tsunami frequently remind us of the dangers associated with living on a constantly changing planet. How do people prepare for these rare but dramatic events? Student will study the science behind earthquakes and volcanoes, how it guides monitoring, forecasting, prevention, and response, and the cultural and ethical aspects of these events.*

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|---|---|---|---|
| 0101 | Laurent Montesi<br>TuTh 9:30am - 10:45am<br>W 3:00pm - 3:50pm | Seats (Total: 20)<br>TWS 1100<br>PLS 1146 | <br><br>Discussion |
| 0102 | Laurent Montesi<br>TuTh 9:30am - 10:45am<br>W 4:00pm - 4:50pm | Seats (Total: 20)<br>TWS 1100<br>PLS 1146 | <br><br>Discussion |
| 0103 | Laurent Montesi<br>TuTh 9:30am - 10:45am<br>W 5:00pm - 5:50pm | Seats (Total: 20)<br>TWS 1100<br>PLS 1146 | <br><br>Discussion |

**GEOL212** **Planetary Geology**

*Credit only granted for: ASTR330 or GEOL212.*

*An examination of the geologic and geochemical processes at work in the solar system from the perspectives supplied by space age exploration of the planets and other solar system bodies.*

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|---|---|---|---|
| 0101 | John Merck<br>MWF 9:00am - 9:50am | Seats (Total: 24)<br>ATL 2316 | |

**GEOL331** **Principles of Paleontology**

*Prerequisite: GEOL102; or (BSCI207 or BSCI392); or permission of CMNS-Geology department. Restriction: Permission of instructor is required of non-degree seeking students. Cross-listed with: BSCI333. Credit only granted for: GEOL331 or BSCI333.*

*A review of the theory, principles, and applications of Paleontology. A systematic overview of the morphology, evolution, and relationships of the major fossil-producing taxa.*

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|---|---|---|---|
| 0101 | Thomas Holtz, John Merck | Seats (Total: 30) | |
| | TuTh 9:30am - 10:45am | PLS 1113 | |
| | Th 2:00pm - 5:00pm | GEO 2107 | Lab |

**GEOL341** **Structural Geology**

*Prerequisite: GEOL120 or GEOL100; and GEOL102; and GEOL110. Or permission of CMNS-Geology department. Restriction: Permission of instructor is required of non-degree seeking students.*

*Study of the deformation of Earth's lithosphere, especially stress, rheology, strain, and the origin and significance of structural features. Development of 3-dimensional thinking through drafting and drawing of structures, construction of geologic maps and cross-sections, and stereographic and orthographic representation of structures. Improvement of scientific writing. Two weekend field trips.*

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|---|---|---|---|
| 0101 | Jaclyn Clark | Seats (Total: 20) | |
| | TuTh 12:30pm - 1:45pm | PLS 1164 | |
| | M 3:00pm - 5:50pm | GEO 2117 | Lab |

**GEOL342** **Sedimentation and Stratigraphy**

*Prerequisite: GEOL120 or GEOL100; and GEOL110; and GEOL322. And CHEM103; or (CHEM131 and CHEM132); or (CHEM135 and CHEM136). Restriction: Permission of instructor is required of non-degree-seeking students.*

*Description, origin, and distribution of sediments and sedimentary rocks.*

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|---|---|---|---|
| 0101 | Alan Kaufman | Seats (Total: 15) | |
| | TuTh 8:00am - 9:15am | ATL 1106 | |
| | M 10:00am - 1:00pm | GEO 2107 | Lab |

**GEOL351** **Statistics for Geoscientists**

*Prerequisite: MATH115. Restriction: Non-degree-seeking students require the permission of the instructor.*

*Practical approach to basic statistics applied in the geosciences. Experimental design, elementary statistics and probability, sequence analysis, spatial analysis, linear regression, nonparametric statistics, bivariate, multivariate and principal components analysis of variance, hypothesis testing. Problem sets and participatory discussion of statistical applications in the current literature.*

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|---|---|---|---|
| 0101 | Michael Evans | Seats (Total: 12) | |
| | M 10:00am - 12:50pm | PLS 1121 | |

**GEOL375** **Introduction to the Blue Ocean**

*Prerequisite: MATH120 or higher. Recommended: MATH121, MATH141, PHYS161, or PHYS171. Cross-listed with: AOSC375. Credit only granted for: AOSC375 or GEOL375.*

*The global ocean is a major component of the Earth System that shapes life on earth, including our weather and climate. We explore the observation-based interdisciplinary science of oceanography, identifying its strong connections to related sciences like meteorology, and geography. We apply this developing understanding to environmental issues such as marine pollution, fish and fisheries, as well as to climate variability and to the changes to the marine environment that are resulting from steadily rising levels of atmospheric greenhouse gasses. Focusses include the biogeochemical and physical changes we can observe in the nearby Chesapeake Bay and the coastal waters of Eastern Shore, Maryland.*

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|---|---|---|
| 0101 | James Carton<br>MWF 11:00am - 11:50am | Seats (Total: 60)<br>ATL 2324 |

**GEOL386** **Experiential Learning**

*Prerequisite: Permission of CMNS-Geology department. Restriction: Junior standing or higher.*

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|---|---|---|
| 0301 | Ricardo Arevalo<br>Contact instructor or department for details. | Seats (Total: 25) |
| 0501 | Richard Walker<br>Contact instructor or department for details. | Seats (Total: 25) |
| 0601 | Laurent Montesi<br>Contact instructor or department for details. | Seats (Total: 25) |
| 0701 | Karen Prestegaard<br>Contact instructor or department for details. | Seats (Total: 25) |
| 0801 | Ann Wylie<br>Contact instructor or department for details. | Seats (Total: 25) |
| 0901 | Sarah Penniston-Dorland<br>Contact instructor or department for details. | Seats (Total: 25) |
| 1101 | Michael Brown<br>Contact instructor or department for details. | Seats (Total: 25) |
| 1201 | Alan Kaufman<br>Contact instructor or department for details. | Seats (Total: 25) |
| 1301 | Philip Piccoli<br>Contact instructor or department for details. | Seats (Total: 25) |
| 1401 | William McDonough<br>Contact instructor or department for details. | Seats (Total: 25) |

| | | |
|---|---|---|
| 1501 | Wenlu Zhu<br>Contact instructor or department for details. | Seats (Total: 25) |
| 1601 | Igor Puchtel<br>Contact instructor or department for details. | Seats (Total: 25) |
| 1701 | James Farquhar<br>Contact instructor or department for details. | Seats (Total: 25) |
| 1801 | Thomas Holtz<br>Contact instructor or department for details. | Seats (Total: 25) |
| 1901 | Michael Evans<br>Contact instructor or department for details. | Seats (Total: 25) |
| 2002 | John Merck<br>Contact instructor or department for details. | Seats (Total: 25) |
| 2003 | Sujay Kaushal<br>Contact instructor or department for details. | Seats (Total: 25) |
| 2004 | Vedran Lekic<br>Contact instructor or department for details. | Seats (Total: 25) |
| 2006 | Nicholas Schmerr<br>Contact instructor or department for details. | Seats (Total: 25) |
| 2007 | Richard Ash<br>Contact instructor or department for details. | Seats (Total: 25) |
| 2008 | Mong-Han Huang<br>Contact instructor or department for details. | Seats (Total: 25) |
| 2009 | Megan Newcombe<br>Contact instructor or department for details. | Seats (Total: 25) |
| 2010 | Daniel Lathrop<br>Contact instructor or department for details. | Seats (Total: 25) |
| 2011 | Cedric Magen<br>Contact instructor or department for details. | Seats (Total: 25) |
| 2012 | Mengqiang Zhu<br>Contact instructor or department for details. | Seats (Total: 25) |

**GEOL393** **Geology Senior Thesis I: Proposal**

(Perm req)

*Prerequisite: PHYS141 or (PHYS161 and PHYS174); and MATH141; and (CHEM131 and CHEM132) or (CHEM135 and CHEM136); and must have completed at least two upper-level geology courses and be concurrently enrolled in a third. Restriction: Junior standing or higher; and must be in Geology program.*

*The first semester of the two-semester Geology Senior Thesis. Emphasis is on developing a plan for original research in the geosciences and presenting that plan both in writing and in public presentations that adhere to geosciences professional standards.*

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|---|---|---|
| 0101 | Philip Piccoli | Seats (Total: 15) |
| | W 4:00pm - 6:00pm | PLS 1158 |
| | Contact instructor or department for details. | |

**GEOL394** **Geology Senior Thesis II: Research**

(Perm req)

*Prerequisite: GEOL393; and must have completed at least three upper level GEOL courses. Restriction: Must be in Geology program; and junior standing or higher.*

*The second semester of the two-semester Geology Senior Thesis. Investigation of specific original research question in geosciences. Emphasis is on completion of original research proposed in GEOL393 and presentation of results both in writing and in public presentations that adhere to geosciences professional standards.*

**Contact department for information to register for this course.**

**GEOL423** **Optical Mineralogy**

*Prerequisite: GEOL100 or GEOL120; and GEOL110; and GEOL322. And CHEM131 and CHEM132; or (CHEM135 and CHEM136); or CHEM103. Restriction: Non-degree-seeking students require the permission of the instructor.*

*The optical behavior of crystals with emphasis on the theory and application of the petrographic microscope.*

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|---|---|---|---|
| 0101 | Sarah Penniston-Dorland | Seats (Total: 17) | |
| | MWF 9:00am - 9:50am | HBK 0108 | |
| | W 10:00am - 1:00pm | GEO 2117 | Lab |

**GEOL444** **Low Temperature Geochemistry**

*Prerequisite: GEOL322, GEOL100, and MATH115. And CHEM103; or (CHEM131 and CHEM132); or (CHEM135 and CHEM136). Restriction: Non-degree-seeking students require the permission of the instructor.*

*Basic chemical principles, thermodynamics, and kinetics of low-temperature inorganic and organic geochemical reactions in a wide range of surface environments. These geochemical tools will be used to provide a context for understanding elemental cycling and climate change. Laboratories will include problem sets as well as wet chemical and mass spectrometric techniques used in low temperature geochemistry.*

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|---|---|---|---|
| 0101 | Mengqiang Zhu | Seats (Total: 12) | |
| | M 1:00pm - 2:50pm | ATL 1106 | |
| | W 1:00pm - 1:50pm | ATL 1106 | |
| | M 3:00pm - 5:50pm | ESJ 1324 | Lab |

**GEOL446** **Geophysics**

*Prerequisite: PHYS141, MATH141, and MATH140; and (GEOL100 or GEOL120). Restriction: Non-degree-seeking students require the permission of the instructor.*

*An introduction to modern geophysics. Topics include: global plate tectonics, plate motion, triple junctions, geomagnetism, earthquakes and faulting, reflection and refraction seismology, gravity and isostasy, heat flow and mantle dynamics, deep interior of the Earth, geophysical observations and measurements.*

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|---|---|---|---|
| 0101 | Wenlu Zhu | Seats (Total: 23) | |
| | TuTh 11:00am - 12:15pm | PLS 1158 | |

**GEOL451** **Groundwater**

*Prerequisite: GEOL110 and MATH140; and (GEOL120 or GEOL100); and (CHEM131 and CHEM132; or (CHEM135 and CHEM136); or CHEM103). Or permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor; and junior standing or higher.*

*An introduction to the basic geologic parameters associated with the hydrologic cycle. Problems in the accumulation, distribution, and movement of groundwater will be analyzed.*

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|---|---|---|---|
| 0101 | Wenlu Zhu | Seats (Total: 20) | |
| | TuTh 2:00pm - 3:15pm | PLS 1168 | |

**GEOL452** **Watershed and Wetland Hydrology**

*Restriction: Junior standing or higher; and all other students require the permission of the instructor.*

*Physical processes by which water moves in watershed and wetland systems. Topics include: precipitation, infiltration, flow in the unsaturated zone, streamflow generation processes, and groundwater flow.*

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|---|---|---|---|
| 0101 | Karen Prestegaard | Seats (Total: 39) | |
| | TuTh 3:30pm - 6:30pm | SPH 1301 | |

**GEOL453** **Ecosystem Restoration**

*Prerequisite: MATH120 or MATH140; or must have completed MATH220. And (CHEM131 or CHEM135); and (CHEM132 or CHEM136); and (GEOL100, GEOL120, or ENST200). Restriction: Junior standing or higher; and permission of instructor is required of non-degree-seeking students. Credit only granted for: GEOL453 or GEOL489L. Formerly: GEOL489L.*

*Overview of ecosystem functions across biomes/geologic settings, and considerations and tradeoffs in ecosystem restoration strategies. Specific case studies and discussions will be aimed at understanding how structure can influence biophysical and biogeochemical processes supporting ecosystems, and then describes how rates, timing, and location of physical, chemical, and ecosystem processes can be altered by different restoration strategies to enhance ecosystem services.*

Jointly offered with MEES698E and GEOL789L.

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|---|---|---|
| 0101 | Sujay Kaushal | Seats (Total: 25) |
| | Tu 3:30pm - 6:30pm | PLS 1115 |

**GEOL460** **Field Geophysics**

*Prerequisite: GEOL100 or GEOL120, MATH140, MATH141, and (PHYS141, PHYS161, or PHYS171). Restriction: Non-degree-seeking students require the permission of the instructor.*

*Students will become familiar with geophysical instrumentation used for both scientific and industrial applications. Students will be given an introduction to the use of geophysical instrumentation for data collection, processing, and analysis, design of field experiments for investigating field geophysical problems, and an introduction to the theory of instrument design and use. Instruments that will be covered include (but are not limited to): broadband seismometers, geophones, ground-penetrating radar, magnetotellurics, and Global Positioning Satellites.*

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|---|---|---|
| 0101 | Nicholas Schmerr, Jacob Giles | Seats (Total: 15) |
| | M 10:00am - 1:50pm | HBK 0108 |

**GEOL488** **Geology Colloquium; Geology Colloquium**

*Contemporary research topics and issues in geosciences are explored through the weekly Geology departmental colloquium and discussion of its contents.*

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|---|---|---|
| 0101 | Mengqiang Zhu | Seats (Total: 30) |
| | F 11:00am - 12:50pm | ESJ 0215 |

**GEOL499** **Special Problems in Geology**

(Perm req)

*Intensive study of a special geologic subject or technique selected after consultation with instructor. Intended to provide training or instruction not available in other courses which will aid the student's development in his or her field of major interest.*

Prerequisites: GEOL100 or GEO120, GEOL110, GEOL102; or equivalent; and permission of department. In addition, non-degree-seeking students require the permission of the instructor. Intensive study of a special geologic subject or technique selected after consultation with instructor. Intended to provide training or instruction not available in other courses which will aid the student's development in his or her field of major interest.

**Contact department for information to register for this course.**

**GEOL636** **Ecosystem Restoration**

*Prerequisite: MATH120 or MATH140; and (CHEM131 or CHEM135); and (CHEM132 or CHEM136); and (GEOL100, GEOL120, or ENST200). Restriction: Equal preference is given to students enrolled in GEOL, MEES, CONS, ENST, AOSC, and civil and environmental engineering graduate programs; and permission of Instructor required for non degree seeking students. Credit only granted for: GEOL453 or GEOL489L. Formerly: GEOL489L.*

*A further understanding of ecosystem functions across biomes/geologic settings, and developing practical applications in ecosystem restoration strategies through a graduate level project. Specific case studies and discussions will be aimed at understanding how structure can influence biophysical and biogeochemical processes supporting ecosystems, and then describes how rates, timing, and location of physical, chemical, and ecosystem processes can be altered by different restoration strategies to enhance ecosystem services. A project will then be used to apply restoration principles towards solving tangible environmental problems and communication to managers.*

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|---|---|---|
| 0101 | Sujay Kaushal | Seats (Total: 25) |
| | Tu 3:30pm - 6:30pm | PLS 1115 |

**GEOL650** **Isotope and Trace Element Geochemistry**

*Prerequisite: GEOL443; or permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor.*

*Trace elements and isotopes in geology, including modern applications in geochronology and petrogenesis.*

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|---|---|---|
| 0101 | Richard Walker | Seats (Total: 10) |
| | TuTh 8:00am - 9:15am | PLS 1172 |

**GEOL651** **Statistics for Geoscientists**

*Prerequisite: MATH115; and non-degree-seeking students require the permission of the instructor. Credit only granted for: GEOL789V or GEOL651. Formerly: GEOL789V.*

*Practical approach to basic statistics applied in the geosciences. Experimental design, elementary statistics and probability, sequence analysis, spatial analysis, linear regression, nonparametric statistics, bivariate, multivariate and principal components analysis of variance, hypothesis testing. Problem sets and participatory discussion of statistical applications in the current literature.*

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|---|---|---|
| 0101 | Michael Evans<br>M 10:00am - 12:50pm | Seats (Total: 10)<br>PLS 1121 |

**GEOL652** **Advanced Watershed and Wetland Hydrology**

*Prerequisite: GEOL452; or permission of CMNS-Geology department. Restriction: Non-degree-seeking students require the permission of the instructor.*

*Physical and chemical processes in watershed and wetland systems: with an emphasis on redox reactions.*

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|---|---|---|
| 0101 | Karen Prestegaard<br>TuTh 3:30pm - 6:30pm | Seats (Total: 9)<br>SPH 1301 |

**GEOL670** **Physical Oceanography**

*Prerequisite: Permission of CMNS-Atmospheric & Oceanic Science department; or permission of CMNS-Geology department. Cross-listed with: AOSC670. Credit only granted for: GEOL670, AOSC670 or AOSC420.*

*Ocean observations. Water masses, sources of deep water. Mass, heat, and salt transport, geochemical tracers. Western boundary currents, maintenance of the thermocline. Coastal and estuarine processes. Surface waves and tides. Ocean climate.*

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|---|---|---|
| 0101 | Jacob Wenegrat<br>TuTh 2:00pm - 3:15pm | Seats (Total: 11)<br>ATL 2416 |
| AM01 | Jacob Wenegrat<br>TuTh 2:00pm - 3:15pm | Seats (Total: 1)<br>ATL 2416 |

**GEOL688** **Geology Colloquium; Geology Colloquium**

*Contemporary research topics and issues in geosciences are explored through the weekly Geology departmental colloquium and discussion of its contents.*

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|---|---|---|
| 0101 | Mengqiang Zhu<br>F 11:00am - 12:50pm | Seats (Total: 30)<br>ESJ 0215 |

**GEOL789A** **Recent Advances in Geology; Current Topics in Volcanology**

*Recent advances in geology research.*

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|---|---|---|
| 0101 | Megan Newcombe<br>W 12:00pm - 2:50pm | Seats (Total: 10)<br>HBK 0108 |

**GEOL789D** **Recent Advances in Geology; Methane Isotopologue Geochemistry**

*Recent advances in geology research.*

| | | |
|---|---|---|
| 0101 | James Farquhar<br>**Meets August 26, 2024 - November 15, 2024**<br>MF 2:00pm - 4:00pm | Seats (Total: 3)<br><br>BMS 3118 |

**GEOL789I** **Recent Advances in Geology; Recent Advances in Igneous and Metamorphic Petrology**

*Recent advances in geology research.*

| | | |
|---|---|---|
| 0101 | Sarah Penniston-Dorland, Megan Newcombe<br>TuTh 9:30am - 10:45am | Seats (Total: 10)<br><br>HBK 0108 |

**GEOL798** **Seminar in Geology**

(Perm req)

*Discussion of special topics in current literature in all phases of geology.*

**Contact department for information to register for this course.**

**GEOL799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**GEOL898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**GEOL899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# GERS German Studies Fall 2024

**GERS103** **Intensive Elementary German**

*Prerequisite: Must have appropriate World Language Placement Test (WLPT) score. Restriction: Must not be a fluent/native speaker of German. Credit only granted for: GERS103 or GERM103. Formerly: GERM103.*

*Covers speaking, reading, writing, listening, and culture of German-speaking world.*

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|---|---|---|
| 0101 | Daniela Nguyen<br>MWF 12:00pm - 12:50pm<br>Class time/details on ELMs | Seats (Total: 18)<br>JMZ 1215<br>ONLINE |
| 0201 | Yesenia Montenegro<br>MWF 1:00pm - 1:50pm<br>Class time/details on ELMs | Seats (Total: 18)<br>JMZ 1215<br>ONLINE |

**GERS141** **Yiddish I**

*Cross-listed with: JWST281. Credit only granted for: JWST281, GERM148Y or GERS141.*

*Introduction to the Yiddish language, with emphasis on speaking, reading, and writing skills. Students will also learn the history of the language, its significance to Jewish culture, its origins and basic structure.*

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|---|---|---|
| 0101 | Adi Mahalel<br>TuTh 12:30pm - 1:45pm | Seats (Total: 20)<br>SQH 2120 |

**GERS203** **Intensive Intermediate German**

*Prerequisite: GERS103; or must have appropriate World Language Placement Test (WLPT) score. Restriction: Must not be a fluent/native speaker of German. Credit only granted for: GERM203 or GERS203. Formerly: GERM203.*

*Covers speaking, reading, writing, listening, and culture of German-speaking world.*

| | | |
|---|---|---|
| 0101 | John Scott<br>MWF 10:00am - 10:50am<br>Class time/details on ELMs | Seats (Total: 18)<br>JMZ 1215<br>ONLINE |
| 0201 | Magnus Jensen<br>MWF 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 18)<br>JMZ 1215<br>ONLINE |

**GERS204** **German Grammar Review**

*Prerequisite: GERS203; or Must have appropriate World Language Placement Test (WLPT) score. Restriction: Must not be a fluent/native speaker of German. Credit only granted for: GERM204 or GERS204. Formerly: GERM204.*

*An in-depth study and analysis of selected grammatical topics in a contextualized framework.*

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|---|---|---|
| 0101 | John Scott<br>TuTh 12:30pm - 1:45pm | Seats (Total: 18)<br>JMZ 1124 |

**GERS269A** **Special Topics in Study Abroad II; Elementary German I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**GERS269B** **Special Topics in Study Abroad II; Elementary German II**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**GERS301** **Conversation and Composition I: The German-Speaking World**

*Prerequisite: GERS204; or students who have taken courses with comparable content may contact the department. Credit only granted for: GERM301 or GERS301. Formerly: GERM301.*

*Practice in contemporary spoken and written German. Systematic review of grammar, and exercises in composition. Emphasis on cultural contrasts in the German-speaking world.*

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|---|---|---|
| 0101 | Regina Haag | Seats (Total: 18) |
| | TuTh 2:00pm - 3:15pm | JMZ 1215 |

**GERS302 Conversation and Composition II: Current Topics in German-Speaking Society**

*Prerequisite: GERS301; or students who have taken courses with comparable content may contact the department. Credit only granted for: GERM302 or GERS302. Formerly: GERM302.*

*Further practice in contemporary spoken and written German. Contemporary social, political, and cultural themes.*

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|---|---|---|
| 0101 | Regina Haag | Seats (Total: 18) |
| | TuTh 11:00am - 12:15pm | JMZ 1215 |

**GERS322 Highlights of German Literature and Culture**

*Prerequisite: GERS302; or students who have taken courses with comparable content may contact the department. Credit only granted for: GERM322 or GERS322. Formerly: GERM322.*

*Selected literary masterworks, social and cultural issues, and historical events in German-speaking countries from the Enlightenment, Romanticism, Junges Deutschland, Realism, Naturalism and its counter currents, Expressionism to the present. Taught in German.*

Taught in German. Cross-listed with GERM322H.

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|---|---|---|
| 0101 | Josh Alvizu | Seats (Total: 18) |
| | MWF 10:00am - 10:50am | JMZ 3205 |

**GERS322H Highlights of German Literature and Culture**

*Prerequisite: GERS302; or students who have taken courses with comparable content may contact the department. Credit only granted for: GERM322 or GERS322. Formerly: GERM322.*

*Selected literary masterworks, social and cultural issues, and historical events in German-speaking countries from the Enlightenment, Romanticism, Junges Deutschland, Realism, Naturalism and its counter currents, Expressionism to the present. Taught in German.*

Taught in German.  Cross-listed with GERM322.

| | | |
|---|---|---|
| 0101 | Josh Alvizu | Seats (Total: 18) |
| | MWF 10:00am - 10:50am | JMZ 3205 |

**GERS356 German for the Professions**

*Prerequisite: GERS301. Credit only granted for: GERM319B, GERM356 or GERS356. Formerly: GERM356.*

*An examination of the structures and work conditions of various industries in the German-speaking world including understanding and navigating company culture, professional development, and preparation for an internship or job where German is spoken.*

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|---|---|---|
| 0101 | Regina Haag | Seats (Total: 18) |
| | TuTh 12:30pm - 1:45pm | JMZ 1215 |

**GERS357** **Professional Development: Skills for a Successful Job Search in Germany and the US**

*Recommended: For student concurrently enrolled in GERS356. Restriction: Only students currently enrolled in German courses at any level and German Studies majors and minors. Additional information: The course is open to current students studying German at all levels. Students taking GERS356 are particularly encouraged to register for this course.*

*This 1-credit practical course introduces students to the work and graduate studies application process in Germany and the US and focuses specifically on developing effective cross- and intercultural communication skills to navigate the work-culture in Germany, creating a strong resume, refining interview skills in English and German, acquiring work-etiquettes, and building professional network connections in both countries.*

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|---|---|---|
| 0101 | Regina Haag | Seats (Total: 18) |
| | W 2:00pm - 2:50pm | JMZ 1103 |

**GERS367** **The Great Derangement: Climate, Art, and Literature**

*Recommended: 200-level General Education and/or humanities course; and sophomore standing. Cross-listed with: CMLT399E. Credit only granted for: GERM399E, CMLT399E, or GERS367. Formerly: GERM399E. Additional information: Priority in enrollment will be given to German majors.*

*An investigation of the relationship between climate and art & literature. Introduction to ecological thinking followed by study of artistic and literary works thematically grouped by the four elements: Earth, Water, Air, and Fire. Readings from the German literary tradition (Goethe, Tieck, Stifter, Kafka, Frisch, Wolf) and contemporary research in the environmental humanities, with additional readings and viewings from elsewhere on the planet. Taught in English.*

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|---|---|---|
| 0101 | Josh Alvizu | Seats (Total: 25) |
| | MWF 1:00pm - 1:50pm | JMZ 2206 |

**GERS369C** **Special Topics in Study Abroad III; German Composition I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**GERS369D** **Special Topics in Study Abroad III; German Composition II**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**GERS369K** **Special Topics in Study Abroad III; Introduction to German Literature**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**GERS369M** **Special Topics in Study Abroad III; Europeans and the Middle East: War & Peace, Culture and Exchange, 1798-Present**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**GERS369P** **Special Topics in Study Abroad III; Pop Culture: European-American Trends**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**GERS378A** **Special Topics in German Studies; The Rise of German Fascism**

*Exploration of diverse topics related to language, literature, and visual culture in the German-speaking world involving components of active and experiential learning.*

Studies the rise of fascism in Germany from the early 20th century to 1933. Presentation of political and historical events in class complements primary focus on cultural production from the Weimar period, including: poems, short stories, novellas, films, artworks, public speeches, performances, diaries, journalism, and radio. Taught in English.

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| 0101 | Josh Alvizu | Seats (Total: 18) |
| | M 12:00pm - 12:50pm | JMZ 3203 |

**GERS378B** **Special Topics in German Studies; New German Cinema**

*Exploration of diverse topics related to language, literature, and visual culture in the German-speaking world involving components of active and experiential learning.*

Corequisite: GERS458C or CINE429N. Provides supplemental instruction in German to students enrolled in GERS458C. Focal points of the course include cultivating vocabulary for analyzing cinema and media and developing knowledge of the particular historical and cultural contexts out of which the New German Cinema emerged. Taught in German.

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| 0101 | Hester Baer | Seats (Total: 18) |
| | Tu 4:50pm - 5:40pm | JMZ 3203 |

**GERS386** **Experiential Learning**

(Perm req)

*Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Junior standing or higher. Credit only granted for: GERM386 or GERS386. Formerly: GERM386.*

*Internship and practicum.*

**Contact department for information to register for this course.**

**GERS411** **German for International Business I**

*Credit only granted for: GERM411 or GERS411. Formerly: GERM411.*

*Advanced skills in German for international business, including understanding and writing correspondence, reports, graphics, ads, etc., according to current German commercial style.*

**Contact department for information to register for this course.**

**GERS439J** **Selected Topics in German Literature; Introduction to the History of the German Language**

*Special study of an author, school, genre, or theme. Taught in German.*

**Contact department for information to register for this course.**

**GERS442** **Gender and Sexuality in German Literature and Society**

*Prerequisite: GERS320 or GERS322. Credit only granted for: GERM442 or GERS442. Formerly: GERM442.*

*Gender and Sexuality in German Literature and Society analyzes gender and sexuality as key discourses for understanding German-speaking literatures, cultures, and societies. Topics include the history of sexuality; death and desire; and representations of gender in German literature. Taught in German.*

Theme: Gender and War.

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|---|---|---|
| 0101 | Julie Koser | Seats (Total: 18) |
| | TuTh 2:00pm - 3:15pm | JMZ 0205 |

**GERS458C** **Literary or Media Genres; New German Cinema**

*Literary or Media Genres studies the formal and stylistic dimensions of specific genres, emphasizing genre as a social, political, and aesthetic category. Topics include pop literature; the history of German drama; and German film genres among others.*

Cross-listed with CINE429N and GERS689N. Credit only granted for CINE429N, GERS458C, or GERS689N. This seminar explores the internationally successful new wave of filmmaking that flourished in West Germany from 1962-1982. Focusing on the New German Cinema as a movement and genre, we will examine how the works of major auteur directors developed new aesthetic forms to engage with the Nazi past, colonialism and migration, feminist and queer liberation, and left politics. Taught in English.

| | | |
|---|---|---|
| 0101 | Hester Baer | Seats (Total: 18) |
| | TuTh 3:30pm - 4:45pm | JMZ 3203 |

**GERS618** **College Teaching of German**

*Instruction, demonstration and classroom practice under supervision of modern procedures in the presentation of elementary German courses to college age students.*

Instruction, demonstration and classroom practice under supervision of modern procedures in the presentation of elementary German courses to college age students.

| | | |
|---|---|---|
| 0101 | John Scott | Seats (Total: 5) |
| | W 2:00pm - 2:50pm | JMZ 3206 |

**GERS689L** **Special Topics - M.A. Level; Gender and Sexuality in German Literature and Society**

*M.A.-level study of a literary, linguistic or cultural topic in German studies.*

Theme: Gender and War. Analyzes gender and sexuality as key discourses for understanding German-speaking literatures, cultures, and societies. In this course, we will examine desire and sexuality as cultural constructs in order to critically analyze the ways in which they are mobilized as forms of power in the service of competing political, social, and cultural agendas from the 18th to the early 20th centuries. Taught in German.

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|---|---|---|
| 0101 | Julie Koser | Seats (Total: 18) |
| | TuTh 2:00pm - 3:15pm | JMZ 0205 |

**GERS689N** **Special Topics - M.A. Level; New German Cinema**

*M.A.-level study of a literary, linguistic or cultural topic in German studies.*

Cross-listed with CINE429N and GERS458C. Credit only granted for CINE429N, GERS458C, or GERS689N. This seminar explores the internationally successful new wave of filmmaking that flourished in West Germany from 1962-1982. Focusing on the New German Cinema as a movement and genre, we will examine how the works of major auteur directors developed new aesthetic forms to engage with the Nazi past, colonialism and migration, feminist and queer liberation, and left politics. Taught in English.

| | | |
|---|---|---|
| 0101 | Hester Baer | Seats (Total: 18) |
| | TuTh 3:30pm - 4:45pm | JMZ 3203 |

**GERS798** **Master's Independent Study**

*German Studies master's independent study.*

**Contact department for information to register for this course.**

**GERS799** **Master's Thesis Research**

*German Studies master's thesis research.*

**Contact department for information to register for this course.**

# GREK Greek Fall 2024

**GREK101** **Elementary Ancient Greek I**

*Restriction: A student who has had two units of Greek in high school may register for GREK101 for purposes of review but not for credit.*

*Study of basic grammar, development of reading facility, and introduction to Athenian life and culture in the fifth century B.C.*

Classical and New Testament Greek.

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| 0101 | Gregory Bucher | Seats (Total: 10) |
| | MWF 12:00pm - 12:50pm | ONLINE |
| | W 1:00pm - 1:50pm | ONLINE |

**GREK111** **Elementary Modern Greek I**

*Restriction: Must not be a native speaker of Greek.*

*An introduction to the language and culture of modern Greece. Students begin to acquire the basic tools of the language and to communicate, in simple everyday situations. This is the first of our two-semester sequence in Elementary Modern Greek and contributes to the fulfillment of the Global Engagement requirement of the College of Arts and Humanities.*

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|---|---|---|
| 0101 | Polyvia Parara | Seats (Total: 15) |
| | MWF 12:00pm - 12:50pm | MMH 1218 |

**GREK201** **Intermediate Ancient Greek**

*Prerequisite: GREK102; or students who have taken courses with comparable content may contact the department.*

*Advancing beyond the basic skills developed in GREK 101 and GREK 102; review of selected grammatical concepts; continuous reading of passages from Greek literature.*

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|---|---|---|
| 0101 | Peter Osorio | Seats (Total: 5) |
| | MWF 10:00am - 10:50am | KEY 0117 |
| | W 9:00am - 9:50am | KEY 0117 |

**GREK211** **Intermediate Modern Greek I**

*Prerequisite: GREK112; or permission of instructor.*

*A continuation of the study of basic structures and the development of fluency in functional, spoken and written communication. This is the first of our two-semester sequence in Intermediate Modern Greek and contributes to the fulfillment of the Global Engagement requirement of the College of Arts and Humanities.*

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|---|---|---|
| 0101 | Polyvia Parara | Seats (Total: 5) |
| | MWF 10:00am - 10:50am | MMH 1218 |

**GREK398** **Advanced Modern Greek**

*Develops advanced communication skills in the modern Greek language: speaking, listening, reading, and writing.*

Pre-requisite: GREK212 or permission of ARHU-Classics department.

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|---|---|---|
| 0101 | Polyvia Parara<br>MWF 11:00am - 11:50am | Seats (Total: 5)<br>MMH 1218 |

**GREK415** **Homer**

*Prerequisite: Permission of ARHU-Classics department.*

*Extensive readings in Greek from the Iliad or the Odyssey, with special attention to the features of Homeric style and the relationship between the two epics.*

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|---|---|---|
| 0101 | Lillian Doherty<br>M 5:00pm - 7:40pm | Seats (Total: 5)<br>MMH 1218 |

**GREK488B** **Greek Readings; Intermediate Ancient Greek**

*The reading of one or more selected Greek authors. Reports.*

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|---|---|---|
| 0101 | Peter Osorio<br>MF 10:00am - 10:50am<br>W 9:00am - 9:50am | Seats (Total: 5)<br>KEY 0117<br>KEY 0117 |

**GREK499** **Independent Study in Greek Language and Literature**

(Perm req)

**Contact department for information to register for this course.**

**GREK604** **Homer**

*The extensive and intensive reading of Homer, with concentration on one of his two epics. Discussion of the language, artistic qualities, and thought of the poems, and of modern views concerning their orgin and literary qualities.*

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|---|---|---|
| 0101 | Lillian Doherty<br>M 5:00pm - 7:40pm | Seats (Total: 7)<br>MMH 1218 |

**GREK699** **Independent Study in Greek Literature**

(Perm req)

**Contact department for information to register for this course.**

**GREK799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

# GVPT Government and Politics Fall 2024

**GVPT170** **American Government**

*A comprehensive study of national government in the United States.*

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|---|---|---|---|
| 0101 | Martin Kobren<br>MW 1:00pm - 1:50pm<br>F 9:00am - 9:50am | Seats (Total: 25)<br>TYD 0130<br>TYD 0102 | <br><br>Discussion |
| 0102 | Martin Kobren<br>MW 1:00pm - 1:50pm<br>F 10:00am - 10:50am | Seats (Total: 25)<br>TYD 0130<br>TYD 0102 | <br><br>Discussion |
| 0103 | Martin Kobren<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 25)<br>TYD 0130<br>TYD 0102 | <br><br>Discussion |
| 0104 | Martin Kobren<br>MW 1:00pm - 1:50pm<br>F 9:00am - 9:50am | Seats (Total: 25)<br>TYD 0130<br>TYD 0111 | <br><br>Discussion |
| 0105 | Martin Kobren<br>MW 1:00pm - 1:50pm<br>F 10:00am - 10:50am | Seats (Total: 25)<br>TYD 0130<br>TYD 0111 | <br><br>Discussion |
| 0106 | Martin Kobren<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 25)<br>TYD 0130<br>TYD 0111 | <br><br>Discussion |
| 0107 | Martin Kobren<br>MW 1:00pm - 1:50pm<br>F 10:00am - 10:50am | Seats (Total: 25)<br>TYD 0130<br>TYD 1101 | <br><br>Discussion |
| 0108 | Martin Kobren<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 25)<br>TYD 0130<br>TYD 0101 | <br><br>Discussion |
| 0109 | Martin Kobren<br>MW 1:00pm - 1:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 25)<br>TYD 0130<br>TYD 0101 | <br><br>Discussion |
| FC01 | Sonia Vargas<br>MW 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 30)<br>TYD 1118 | |

**GVPT200** **International Political Relations**

*A study of the major factors underlying international relations, the causes of conflict and cooperation among international actors, the role of international institutions, the interactions of domestic and foreign policies, and major issues in security, economy and the environment.*

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|---|---|---|---|
| 0101 | Hyunki Kim<br>MW 10:00am - 10:50am<br>F 9:00am - 9:50am | Seats (Total: 25)<br>TYD 0130<br>TYD 1101 | Discussion |
| 0102 | Hyunki Kim<br>MW 10:00am - 10:50am<br>F 10:00am - 10:50am | Seats (Total: 25)<br>TYD 0130<br>TYD 1102 | Discussion |
| 0103 | Hyunki Kim<br>MW 10:00am - 10:50am<br>F 12:00pm - 12:50pm | Seats (Total: 25)<br>TYD 0130<br>TYD 0101 | Discussion |
| 0104 | Hyunki Kim<br>MW 10:00am - 10:50am<br>F 9:00am - 9:50am | Seats (Total: 25)<br>TYD 0130<br>TYD 1114 | Discussion |
| 0105 | Hyunki Kim<br>MW 10:00am - 10:50am<br>F 10:00am - 10:50am | Seats (Total: 25)<br>TYD 0130<br>TYD 1114 | Discussion |
| 0106 | Hyunki Kim<br>MW 10:00am - 10:50am<br>F 12:00pm - 12:50pm | Seats (Total: 25)<br>TYD 0130<br>TYD 0102 | Discussion |
| 0107 | Hyunki Kim<br>MW 10:00am - 10:50am<br>F 9:00am - 9:50am | Seats (Total: 25)<br>TYD 0130<br>TYD 1118 | Discussion |
| 0108 | Hyunki Kim<br>MW 10:00am - 10:50am<br>F 11:00am - 11:50am | Seats (Total: 25)<br>TYD 0130<br>TYD 0111 | Discussion |
| 0109 | Hyunki Kim<br>MW 10:00am - 10:50am<br>F 12:00pm - 12:50pm | Seats (Total: 25)<br>TYD 0130<br>TYD 0111 | Discussion |

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|---|---|---|---|
| FC01 | Flavia Batista Da Silva<br>TuTh 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 30)<br>TYD 1118 | |

**GVPT201** **Scope and Methods for Political Science Research**

*Credit only granted for: GVPT100 or GVPT201. Formerly: GVPT100.*

*An introduction to empirical research in political science.*

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|---|---|---|---|
| 0101 | Johanna Birnir<br>MW 9:00am - 9:50am<br>Class time/details on ELMs<br>F 9:00am - 9:50am<br>Class time/details on ELMs | Seats (Total: 25)<br>ESJ 0215<br>ONLINE<br>JMZ 0205<br>ONLINE | <br><br><br>Discussion<br>Discussion |
| 0102 | Johanna Birnir<br>MW 9:00am - 9:50am<br>Class time/details on ELMs<br>F 10:00am - 10:50am<br>Class time/details on ELMs | Seats (Total: 25)<br>ESJ 0215<br>ONLINE<br>ARC 1105<br>ONLINE | <br><br><br>Discussion<br>Discussion |
| 0103 | Johanna Birnir<br>MW 9:00am - 9:50am<br>Class time/details on ELMs<br>F 1:00pm - 1:50pm<br>Class time/details on ELMs | Seats (Total: 25)<br>ESJ 0215<br>ONLINE<br>TLF 1103<br>ONLINE | <br><br><br>Discussion<br>Discussion |
| 0201 | Johanna Birnir<br>MW 10:00am - 10:50am<br>Class time/details on ELMs<br>F 9:00am - 9:50am<br>Class time/details on ELMs | Seats (Total: 25)<br>ESJ 2208<br>ONLINE<br>JMZ 1124<br>ONLINE | <br><br><br>Discussion<br>Discussion |
| 0202 | Johanna Birnir<br>MW 10:00am - 10:50am<br>Class time/details on ELMs<br>F 10:00am - 10:50am<br>Class time/details on ELMs | Seats (Total: 25)<br>ESJ 2208<br>ONLINE<br>TWS 0205<br>ONLINE | <br><br><br>Discussion<br>Discussion |

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| 0203 | Johanna Birnir | Seats (Total: 24) | |
| | MW 10:00am - 10:50am<br>Class time/details on ELMs<br>F 1:00pm - 1:50pm<br>Class time/details on ELMs | ESJ 2208<br>ONLINE<br>EDU 3236<br>ONLINE | <br><br>Discussion<br>Discussion |
| 0205 | Johanna Birnir | Seats (Total: 25) | |
| | MW 10:00am - 10:50am<br>Class time/details on ELMs<br>F 10:00am - 10:50am<br>Class time/details on ELMs | ESJ 2208<br>ONLINE<br>VMH 1207<br>ONLINE | <br><br>Discussion<br>Discussion |
| 0206 | Johanna Birnir | Seats (Total: 25) | |
| | MW 10:00am - 10:50am<br>Class time/details on ELMs<br>F 1:00pm - 1:50pm<br>Class time/details on ELMs | ESJ 2208<br>ONLINE<br>JMZ 0125<br>ONLINE | <br><br>Discussion<br>Discussion |

**GVPT202** **Law or Politics? The U.S. Supreme Court and Individual Rights**

*A thorough examination of the state of individual rights before the U.S. Supreme Court. The course will consider how recent cases the Court has decided and current pending cases have shaped the meaning of the U.S. Constitution. A critical component will involve peer deliberation over the proper roles of law and politics and their impacts on the current state of individual rights in the United States. Students will examine constitutional case studies throughout the semester and contribute to group and classroom discussions of issues being considered by the sitting Court. Students will also learn the foundational concepts of how the Court operates as both a legal and political institution, as well as its place in the larger political system. Special emphasis will be given to the social scientific study of the Supreme Court.*

Restricted to students in Carillon Communities. Once registered, students need an electronic stamp from an advisor to drop the course.

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|---|---|---|---|
| 0101 | Patrick Wohlfarth | Seats (Total: 20) | |
| | MW 10:00am - 10:50am<br>F 9:00am - 9:50am | TWS 0310<br>TYD 1108 | <br>Discussion |
| 0102 | Patrick Wohlfarth | Seats (Total: 20) | |
| | MW 10:00am - 10:50am<br>F 10:00am - 10:50am | TWS 0310<br>TYD 1108 | <br>Discussion |
| 0103 | Patrick Wohlfarth | Seats (Total: 20) | |
| | MW 10:00am - 10:50am<br>F 1:00pm - 1:50pm | TWS 0310<br>TYD 1108 | <br>Discussion |

**GVPT206** **Appetite for Change: Politics and the Globalization of Food**

*Credit only granted for: GVPT206 or GVPT289A. Formerly: GVPT289A.*

*An overview of the major forces transforming the food system--political, economic, technological, environmental--and the political debates surrounding them.*

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| 0101 | Virginia Haufler<br>MW 2:00pm - 2:50pm<br>F 9:00am - 9:50am | Seats (Total: 20)<br>TYD 0130<br>LEF 1220 | Discussion |
| 0102 | Virginia Haufler<br>MW 2:00pm - 2:50pm<br>F 10:00am - 10:50am | Seats (Total: 20)<br>TYD 0130<br>LEF 1220 | Discussion |
| 0103 | Virginia Haufler<br>MW 2:00pm - 2:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>TYD 0130<br>JMZ 0208 | Discussion |
| 0104 | Virginia Haufler<br>MW 2:00pm - 2:50pm<br>F 9:00am - 9:50am | Seats (Total: 20)<br>TYD 0130<br>LEF 1221 | Discussion |
| 0105 | Virginia Haufler<br>MW 2:00pm - 2:50pm<br>F 10:00am - 10:50am | Seats (Total: 20)<br>TYD 0130<br>LEF 1221 | Discussion |
| 0106 | Virginia Haufler<br>MW 2:00pm - 2:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>TYD 0130<br>LEF 1221 | Discussion |

**GVPT217** **Mock Trial**

(Perm req)

*Cross-listed with: MLAW217. Credit only granted for: MLAW217, GVPT217, or GVPT319A. Formerly: GVPT319A.*

*Experience the excitement and reward of arguing, and perhaps winning your client's case in court. Mock Trial is designed for students who are interested in learning practical techniques for shaping the evidence, using the law, and exploiting the courtroom to create a coherent and convincing case theory.*

*Click here for course permission.*

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| 0101 | William Mundy<br>W 6:30pm - 9:15pm | Seats (Total: 38)<br>TYD 1102 | |

**GVPT221** **Introduction to Formal Theories of Political Behavior and Politics**

*Prerequisite: GVPT170.*

*An introduction to the theories of rational choice including theories of negotiation and bargaining, elections and voting in democracies, community organizing and the contrast between the roles and performances of government and market.*

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| 0101 | Piotr Swistak<br>TuTh 3:30pm - 4:45pm | Seats (Total: 25)<br>TYD 1108 | |

**GVPT241** **The Study of Political Philosophy: Ancient and Modern**

*Examines some of the salient continuities and breaks between the ancient and modern traditions in Western political philosophy.*

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|---|---|---|---|
| 0101 | Sujith Kumar<br>TuTh 3:30pm - 4:20pm<br>F 9:00am - 9:50am | Seats (Total: 25)<br>LEF 2205<br>TYD 2109 | Discussion |
| 0102 | Sujith Kumar<br>TuTh 3:30pm - 4:20pm<br>F 10:00am - 10:50am | Seats (Total: 25)<br>LEF 2205<br>ESJ B0320 | Discussion |
| 0103 | Sujith Kumar<br>TuTh 3:30pm - 4:20pm<br>F 9:00am - 9:50am | Seats (Total: 25)<br>LEF 2205<br>TYD 2106 | Discussion |
| 0104 | Sujith Kumar<br>TuTh 3:30pm - 4:20pm<br>F 10:00am - 10:50am | Seats (Total: 25)<br>LEF 2205<br>JMP 2202 | Discussion |
| 0105 | Sujith Kumar<br>TuTh 3:30pm - 4:20pm<br>F 11:00am - 11:50am | Seats (Total: 25)<br>LEF 2205<br>TYD 1101 | Discussion |
| 0106 | Sujith Kumar<br>TuTh 3:30pm - 4:20pm<br>F 1:00pm - 1:50pm | Seats (Total: 25)<br>LEF 2205<br>TYD 1102 | Discussion |
| 0107 | Sujith Kumar<br>TuTh 3:30pm - 4:20pm<br>F 11:00am - 11:50am | Seats (Total: 25)<br>LEF 2205<br>TYD 1108 | Discussion |

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| | 0108 | Sujith Kumar<br>TuTh 3:30pm - 4:20pm<br>F 1:00pm - 1:50pm | Seats (Total: 25)<br>LEF 2205<br>TYD 1114 | Discussion |
| | FC01 | Sujith Kumar<br>TuTh 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 30)<br>LEF 2166 | |

**GVPT258B** **Introduction to Political Science Topics in Study Abroad; Enemy Within: Spies and Espionage in the Cold War**

*The study of topics in political science taken as part of an approve study abroad program.*

**Contact department for information to register for this course.**

**GVPT258C** **Introduction to Political Science Topics in Study Abroad; Government and Politics in China**

*The study of topics in political science taken as part of an approve study abroad program.*

**Contact department for information to register for this course.**

**GVPT258D** **Introduction to Political Science Topics in Study Abroad; Danish Politics and Society**

*The study of topics in political science taken as part of an approve study abroad program.*

**Contact department for information to register for this course.**

**GVPT258E** **Introduction to Political Science Topics in Study Abroad; Government and Politics in Spain**

*The study of topics in political science taken as part of an approve study abroad program.*

**Contact department for information to register for this course.**

**GVPT258F** **Introduction to Political Science Topics in Study Abroad; European Union Law and Economic Integration**

*The study of topics in political science taken as part of an approve study abroad program.*

**Contact department for information to register for this course.**

**GVPT258I** **Introduction to Political Science Topics in Study Abroad; Government and Politics in Italy and Europe**

*The study of topics in political science taken as part of an approve study abroad program.*

**Contact department for information to register for this course.**

**GVPT258N** **Introduction to Political Science Topics in Study Abroad; Arms Control in the Nuclear Realm**

*The study of topics in political science taken as part of an approve study abroad program.*

**Contact department for information to register for this course.**

**GVPT258P** **Introduction to Political Science Topics in Study Abroad; Sustainable Development: Environmental, Political and Social Issues**

*The study of topics in political science taken as part of an approve study abroad program.*

**Contact department for information to register for this course.**

**GVPT258R** **Introduction to Political Science Topics in Study Abroad; Peace and Conflict Honors Seminar II: Regional Conflicts**

*The study of topics in political science taken as part of an approve study abroad program.*

**Contact department for information to register for this course.**

**GVPT258T** **Introduction to Political Science Topics in Study Abroad; Terrorism and Political Violence**

*The study of topics in political science taken as part of an approve study abroad program.*

**Contact department for information to register for this course.**

**GVPT273** **Introduction to Environmental Politics**

*An overview of modern environmental philosophy, politics, and policy, exploring environmental politics in the US by way of comparison with other developed and developing countries.*

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| FC01 | Conny Kazungu Sigel<br>MW 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 30)<br>TYD 1132 | |

**GVPT280** **The Study of Comparative Politics**

*An introduction to the comparative study of politics and governance, including the analytical concepts for studies of politics and a survey of the major types of regimes, including democratic and authoritarian/communist regimes.*

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| 0101 | Allison Berland<br>MW 1:00pm - 1:50pm<br>F 9:00am - 9:50am | Seats (Total: 20)<br>SHM 2102<br>LEF 1222 | Discussion |
| 0102 | Allison Berland<br>MW 1:00pm - 1:50pm<br>F 10:00am - 10:50am | Seats (Total: 20)<br>SHM 2102<br>LEF 1222 | Discussion |
| 0103 | Allison Berland<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>SHM 2102<br>LEF 1222 | Discussion |
| 0104 | Allison Berland<br>MW 1:00pm - 1:50pm<br>F 9:00am - 9:50am | Seats (Total: 20)<br>SHM 2102<br>TYD 2102 | Discussion |
| 0105 | Allison Berland<br>MW 1:00pm - 1:50pm<br>F 10:00am - 10:50am | Seats (Total: 20)<br>SHM 2102<br>TYD 2111 | Discussion |
| 0106 | Allison Berland<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>SHM 2102<br>TYD 1101 | Discussion |

**GVPT289B** **Special Topics in Government and Politics; Globalization**

*Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.*

**Contact department for information to register for this course.**

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**GVPT289X** **Special Topics in Government and Politics; Introduction to European Union**

*Substantive issues of and theoretical approaches to political phenomenon. Topics and credit vary.*

**Contact department for information to register for this course.**

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**GVPT306** **Global Environmental Politics**

*Prerequisite: GVPT200. Restriction: Must be in one of the following programs (Government & Politics; Government & Politics: International Relations) ; or permission of BSOS-Government & Politics department.*

*Focus on three processes of international environmental policy development- identifying problems, negotiating solutions, and implementing agreements- through a range of case studies, including global climate change.*

Restriction: Must be in Government & Politics program, Government & Politics: International Relations program, or ENSP: Environmental Politics & Policy program.

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| 0101 | Conny Kazungu Sigel | Seats (Total: 30) |
| | MW 2:00pm - 3:15pm | TYD 1102 |

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**GVPT309H** **Topics in International Relations; British Politics**

*The study of topics in international relations.*

**Contact department for information to register for this course.**

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**GVPT318C** **Classroom to Careers**

*Embarking on a career post-college is both an exhilarating and a challenging journey. This course is designed to demystify the transition from university to professional life for GVPT students. Throughout the course, students will engage in a structured process to identify their professional interests and navigate through potential career avenues. Additionally, weekly sessions will feature in-person meetings with GVPT alumni from diverse sectors, offering students a unique opportunity to gain insights from several real-world professional trajectories. By the course's conclusion, students will not only have a framework for career planning but also gain firsthand narratives that bridge the gap between academic study and professional endeavor.*

Restriction: Must be in Government & Politics program. Embarking on a career post-college is both an exhilarating and a challenging journey. This course is designed to demystify the transition from university to professional life for GVPT students. Participants will engage in a structured process to identify their professional interests and navigate through potential career avenues. Weekly sessions will feature in-person meetings with GVPT alumni from diverse sectors, offering students a unique opportunity to gain insights from several real-world professional trajectories. By the course's conclusion, students will not only have a framework for career planning but also firsthand narratives that bridge the gap between academic study and professional endeavor.

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|---|---|---|---|
| 0101 | Allison Berland<br>Tu 6:00pm - 7:15pm | Seats (Total: 20)<br>HJP 2242 | |

**GVPT320** **Advanced Empirical Research**

*Prerequisite: GVPT201. Restriction: Must be in Government & Politics or Government & Politics: International Relations program.*

*Allows students to build on the knowledge of statistical inference they gained from GVPT201. Topics include data collection, data cleaning, data analysis, and data visualization. By the time students complete this class, they will be able to do basic statistical modeling using OLS regression independently.*

Students will be required to download statistical package R onto their own laptops and must bring their laptop to every class meeting beginning on October 8.

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| 0101 | Candace Turitto<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>TYD 2111 | |

**GVPT354** **International Development and Conflict Management**

*Restriction: Sophomore standing or higher; and must be in one of the following minor programs (International Development and Conflict Management; Global Engineering Leadership; Global Poverty, Global Terrorism Studies) or have permission of the Center for International Development, or must be in the Government and Politics major with permission of the Government and Politics department. Additional information: Students enrolled in MIDCM are expected to take the course during the Fall semester after admission to the program.*

*Serves as the gateway course for the Minor in International Development and Conflict Management. Provides an introductory foundation in the theory and practice of international development and conflict management. Introduces the structures, key players, intersections, and main trends in the evolution of the fields. Explores causal factors that drive economic growth, poverty, inequality, and conflict, as well as the resources, methods, and tools available to track and address these issues.*

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| 0101 | John McCauley<br>W 2:00pm - 3:40pm<br>F 9:00am - 9:50am<br>*Restricted to students in the #BS02 program.* | Seats (Total: 16)<br>ESJ 1215<br>TYD 2111 | Discussion |
| 0102 | John McCauley<br>W 2:00pm - 3:40pm<br>F 10:00am - 10:50am<br>*Restricted to students in the #BS02 program.* | Seats (Total: 16)<br>ESJ 1215<br>TYD 2109 | Discussion |

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| 0103 | John McCauley<br>W 2:00pm - 3:40pm<br>F 12:00pm - 12:50pm<br>*Restricted to students in the #BS02 program.* | Seats (Total: 16)<br>ESJ 1215<br>TYD 1101 | Discussion |
| 0104 | John McCauley<br>W 2:00pm - 3:40pm<br>F 9:00am - 9:50am<br>*Open to all majors.* | Seats (Total: 9)<br>ESJ 1215<br>TYD 2111 | Discussion |
| 0105 | John McCauley<br>W 2:00pm - 3:40pm<br>F 10:00am - 10:50am<br>*Open to all majors.* | Seats (Total: 9)<br>ESJ 1215<br>TYD 2109 | Discussion |
| 0106 | John McCauley<br>W 2:00pm - 3:40pm<br>F 12:00pm - 12:50pm<br>*Open to all majors.* | Seats (Total: 9)<br>ESJ 1215<br>TYD 1101 | Discussion |

**GVPT356** **Capstone in International Development**

(Perm req)

*Prerequisite: GVPT354. Restriction: Enrollment is restricted to students in the Minor in International Development and Conflict Management; and sophomore standing or higher; and permission of BSOS-Government & Politics department.*

*Serves as one of the two capstone courses for the Minor in International Development and Conflict Management. Focuses on advanced theory and the practice and profession of international development and is designed to provide students an introduction to, and a chance to engage with, a core set of practical skills relevant to the field.*

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| 0101 | Stacy Kosko<br>M 2:00pm - 4:45pm | Seats (Total: 31)<br>SPH 1301 |

**GVPT358A** **Study Abroad Seminar in Political Science; Migration and Multiculturalism in Europe**

*The study of topics in political science.*

**Contact department for information to register for this course.**

**GVPT358D** **Study Abroad Seminar in Political Science; Politics and Economy of Spain**

*The study of topics in political science.*

**Contact department for information to register for this course.**

**GVPT358F** **Study Abroad Seminar in Political Science; Government and Politics in France**

*The study of topics in political science.*

**Contact department for information to register for this course.**

**GVPT358G** **Study Abroad Seminar in Political Science; History and Politics of Modern Italy: The Twentieth Century**

*The study of topics in political science.*

**Contact department for information to register for this course.**

**GVPT358P** **Study Abroad Seminar in Political Science; Political Rhetoric: Blogs, Speeches, and Spin**

*The study of topics in political science.*

**Contact department for information to register for this course.**

**GVPT358R** **Study Abroad Seminar in Political Science; Religion and Politics in Europe**

*The study of topics in political science.*

**Contact department for information to register for this course.**

**GVPT368C** **Asian American Politics**

*Cross-listed with: AAST443, AMST498J. Credit only granted for: AAST498T, AAST443, GVPT368C or AMST 498J. Formerly: AAST498T.*

*Students will gain a greater understanding of 1) the role of Asian Americans in US politics, 2) the political attitudes and behaviors of Asian Americans and 3) how to conduct research on Asian American politics. Though the class will concentrate on Asian Americans, issues related to Asian American politics will be examined within the larger context of America's multicultural political landscape.*

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| 0101 | Janelle Wong | Seats (Total: 30) |
| | MW 2:00pm - 3:15pm | PLS 1117 |

**GVPT368D** **Special Topics in Government and Politics; Israel: Politics and Society**

*The study of topics in government and politics.*

Cross-listed with IRSL329C. Credit only granted for ISRL329C or GVPT368D. This course will address the main issues in Israeli politics and society by focusing on the role of Zionism in the Jewish state, the institutional foundations of Israeli democracy, the main political parties and blocs and their different ideological principles and visions, as well as the main social groups, movements, and institutions that comprise Israeli civil society.

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| 0101 | Ilai Saltzman | Seats (Total: 35) |
| | MW 3:30pm - 4:45pm | ESJ B0320 |

**GVPT368F** **Special Topics in Government and Politics; Tzahal: The Israeli Military in State, Society, and its Middle Eastern Context**

*The study of topics in government and politics.*

Crosslisted with ISRL349G. Credit only granted for ISRL349G or GVPT368F This course offers an introduction to general concepts of civil-militar relations with a strong focus on the Israeli case. Situating Israel within the Middle East context, the course readings and class discussions will include comparative references to major regional players, such as Egypt, Turkey, Iran, and the Arab Gulf States. The military is a salient feature of all Middle Eastern states; we will explore how Israel both resembles and differs from other states in the region regarding the role of its military and of civil-military relations.

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| 0101 | Marwa Maziad | Seats (Total: 30) |
| | TuTh 12:30pm - 1:45pm | ONLINE |

**GVPT368I** **Special Topics in Government and Politics; The Right in Israel: A Historical Examination**

*The study of topics in government and politics.*

Cross-listed with ISRL349D and HIST328F. Credit only granted for ISRL349D, HIST328F, or GVPT368I. Israel has been moving towards the political Right during the last 30 years, as became obvious in its last election in November 2022. This course explores the history of that movement, beginning before Israel became a state, but focusing primarily on 1967 to the present. No previous knowledge of Israeli history required. Contact the instructor for more information.

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| 0101 | Paul Scham | Seats (Total: 25) |
| | TuTh 3:30pm - 4:45pm | JMZ 2120 |

**GVPT368K** **Special Topics in Government and Politics; Environmental and Sustainable Development in Israel**

*The study of topics in government and politics.*

Cross-listed with ISRL349Y. Credit only granted for ISRL349Y or GVPT368K. Relationships between the environment and different communities that share it, specifically in and around Israel, given the negative effects of climate change and environmental degradation throughout the Middle East. We will examine the ecological and environmental challenges Israel has faced over the years, the many innovative ways in which it has worked to overcome these challenges, and the tasks that still lie ahead. Finally, we will look at the nexus between sustainable development and sustainable peace within and between diverse communities.

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| 0101 | Adina Friedman | Seats (Total: 35) |
| | Th 5:00pm - 7:30pm | ONLINE |

**GVPT368M** **Special Topics in Government and Politics; Congressional Investigations and Democratic Governance**

*The study of topics in government and politics.*

Cross-listed with PLCY388M. Credit only granted for PLCY388M or GVPT368M. The course introduces students to the purpose and practice of congressional investigations. Topics covered include: the reach and limits of Congress's constitutional authority to investigate; tools and tactics used in congressional investigations; congressional authority to investigate the executive and judicial branches of government; what constitutes effective oversight; and current challenges to conducting congressional investigations. Class discussion will frame these issues by focusing on the work of the House Select Committee to Investigate the January 6th Attack on the United States Capitol and other high-profile inquiries, featuring video excerpts and personal perspectives from individuals involved with those efforts. Students will engage in experiential and hands-on learning to understand the subject matter.

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| 0101 | Kristin Amerling | Seats (Total: 25) |
| | TuTh 5:00pm - 6:15pm | MMH 1304 |

**GVPT368R** **Special Topics in Government and Politics; Introduction to Human Rights in Israel**

*The study of topics in government and politics.*

Cross-listed with ISRL448R. Credit only granted for ISRL448R or GVPT368R. Provides an overview of how the State of Israel deals with human rights of its citizens, and also non-citizens over which it has control. It will introduce Israel s legal system, human rights record, and its methods of dealing with human rights violations, including those impacting the Arab minority in Israel, women's rights, and those of the Palestinians in the Occupied Territories.

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| 0101 | Morad Elsana | Seats (Total: 25) |
| | W 6:00pm - 8:30pm | TLF 1101 |

**GVPT376** **Applied Field Research in Government and Politics**

(Perm req)

*Prerequisite: GVPT170. Corequisite: GVPT377.*

*Students in this course participate as interns in an agency of government or in some other appropriate political organization. Assignments are arranged to provide students with insights into both theoretical and practical aspects of politics. Under the tutelage of the host agency and an academic advisor, students conduct a major research project of mutual interest to the student and his or her host agency in the field of government and politics.*

**Contact department for information to register for this course.**

**GVPT377** **Experiential Learning: Government and Politics Internship Program**

(Perm req)

*Prerequisite: GVPT170. Credit only granted for: GVPT377 or GVPT388W. Formerly: GVPT388W.*

*The application of major concepts of political science to the realities of the political process. The course connects internship experiences with larger themes of political science. Students must be admitted to the GVPT Internship Program.*

Students interested in registering for this course must have an internship secured and must apply to the GVPT Internship Program. Required in-person class meetings will take place from 6:30pm-9:15pm on the following Wednesdays: September 25th, November 6th, and December 4th.

*Click here for more course information.*

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| 0101 | Florian Gawehns<br>Class time/details on ELMs<br>W 6:30pm - 9:15pm | Seats (Total: 40)<br>ONLINE<br>TYD 1132 |

**GVPT386** **Experiential Learning**

(Perm req)

*Restriction: Permission of BSOS-Government & Politics department; and junior standing or higher.*

**Contact department for information to register for this course.**

**GVPT388** **Topical Investigations**

(Perm req)

*Independent research and writing on selected topics in government and politics.*

Permission of Director of Undergraduate Studies required.

**Contact department for information to register for this course.**

**GVPT388M** **Topical Investigations; Mock Trial**

(Perm req)

*Independent research and writing on selected topics in government and politics.*

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| 0101 | William Mundy<br>W 6:30pm - 9:15pm | Seats (Total: 38)<br>TYD 1101 |

**GVPT389** **Experiential Learning II**

(Perm req)

*Experiential credit for working in government & politics related internships, research, and teaching opportunities.*

Junior standing.

**Contact department for information to register for this course.**

**GVPT390** **Game Theory**

*Restriction: Must not have completed ECON414. Credit only granted for: GVPT399A, GVPT390, CMSC474 or ECON414. Formerly: GVPT399A.*

*Introduction to game theory with applications to political science, economics and sociology. Topics include preference theory, expected utility theory, Nash equilibria, subgame perfection, repeated games, folk theorems, and evolutionary stability.*

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| 0101 | Piotr Swistak | Seats (Total: 25) |
| | TuTh 12:30pm - 1:45pm | TYD 1108 |

**GVPT396** **Introduction to Honors Research**

(Perm req)

*Restriction: Must be in Government & Politics Honors Program; and must have permission of the Government & Politics Honors Program.*

*A required course for all honors students designed to emphasize library research, methodology, and writing skills in political science and political philosophy. A written proposal, bibliography and research design for an honors paper required of all students as a final project.*

**Contact department for information to register for this course.**

**GVPT397** **Honors Research**

(Perm req)

*Prerequisite: GVPT396. Restriction: Must be in Government & Politics Honors Program.*

*Individual reading and research. Preparation of an original paper.*

**Contact department for information to register for this course.**

**GVPT399C** **Seminar in Government and Politics; The Case of Catalonia**

*Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.*

**Contact department for information to register for this course.**

**GVPT399D** **Seminar in Government and Politics; Society and Politics in Contemporary Spain**

*Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.*

**Contact department for information to register for this course.**

**GVPT399I** **Seminar in Government and Politics; Globilization**

*Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.*

**Contact department for information to register for this course.**

**GVPT399L** **Seminar in Government and Politics; British Politics**

*Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.*

**Contact department for information to register for this course.**

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**GVPT399N** **Seminar in Government and Politics; Political Movements in the European Union**

*Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.*

**Contact department for information to register for this course.**

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**GVPT399X** **Seminar in Government and Politics; Political Movements in the European Union**

*Reading, research, discussion, analysis, and writing in the area of politics. Both substantive issues and methodological approaches will be considered. Primarily for government and politics undergraduate majors.*

**Contact department for information to register for this course.**

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**GVPT409H** **Seminar in International Relations and World Politics; International Law and International Security**

(Perm req)

*Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.*

Must be in Government and Politics Honors Program. Prerequisite: GVPT200 An examination of the role of international law in regulating and influencing the behavior and actions of states and non-state actors in a range of security issue areas. Students will be introduced to theoretical and empirical studies on the role of law in international security affairs based on academic readings and scholarship. Students will apply theories and insights from academic scholarship on international law to contemporary international security issues and to think about the policy relevance of the course readings.

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| 0101 | Paul Huth | Seats (Total: 20) |
| | W 3:00pm - 5:45pm | TYD 1108 |

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**GVPT409V** **Seminar in International Relations and World Politics; Game Theory And International Security**

*Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.*

**Contact department for information to register for this course.**

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**GVPT409W** **Seminar in International Relations and World Politics; Southeast Asia in Contemporary Global Politics**

*Reading, writing, and research on topics in international relations and world politics. Both substantive issues and methodological approaches will be considered.*

Restriction: Must be in Government & Politics program or Government & Politics: International Relations program. Southeast Asia, home to three major religious cultures and various regime types, is one of the most politically and socially diverse regions of the world. While the region is unique for its diversity, its states face challenges that are common in other parts of the world including globalization; adjusting to the new geopolitical landscape of rising global powers; and external pressure to improve the standards of human rights, the environment and democracy. Given this dynamic political context, this course is designed to give students a greater understanding of the problems and prospects of the region, as well as the ability to assess its efforts to adapt to the changing regional and international environment.

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| 0101 | Jennifer Wallace | Seats (Total: 30) |
| | TuTh 2:00pm - 3:15pm | TYD 1114 |

**GVPT411** **Conflict in the International System**

*Prerequisite: GVPT200. Restriction: Must be in Government & Politics or Government & Politics: International Relations program. Credit only granted for: GVPT409P or GVPT411. Formerly: GVPT409P.*

*In this course, we will examine conflict, peace, and conflict resolution in contemporary international politics. We will interrogate what we mean by concepts such as peace, conflict, and violence, the different forms that these phenomena can take, and how we can measure their occurrence. We will discuss theoretical explanations for why individuals and groups have disputes, why these actors choose to use violence (or not) in these disputes, and ways in which violent disputes can be resolved peacefully. We will examine these arguments in a detailed study of conflicts in the Middle East, as well as by evaluating published articles that examine the effectiveness of conflict management strategies such as peacekeeping.*

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| 0101 | David Cunningham | Seats (Total: 30) |
| | TuTh 11:00am - 12:15pm | TYD 1101 |

**GVPT414** **International Relations of East Asia**

*Prerequisite: GVPT200. Restriction: Must be in Government & Politics or Government & Politics: International Relations program. Credit only granted for: GVPT409E or GVPT414. Formerly: GVPT409E.*

*An examination of international relations in East Asia, focusing mostly on Northeast Asia. The course will provide some background on the evolution of international politics in the region over the past several decades, and will examine several contemporary issues--including the North Korean nuclear issue, the relationship across the Taiwan Strait, and maritime disputes in the East and South China Seas--in depth.*

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| 0101 | Scott Kastner | Seats (Total: 30) |
| | TuTh 9:30am - 10:45am | TYD 2106 |

**GVPT429J** **Problems in Political Behavior; Digital Dictatorships**

*The problem approach to political behavior with emphasis on theoretical and empirical studies on selected aspects of the political process.*

Prerequisite: GVPT201. Restriction: Must be in Government and Politics program. This course explores the digital strategies used by dictatorial regimes as well as the digital data and methodology scholars use to understand autocratic politics. Students will pursue a semester-long project of their choosing.

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| 0101 | Fiona Shen-Bayh | Seats (Total: 25) |
| | MW 3:30pm - 4:45pm | TYD 0101 |

**GVPT429K** **Problems in Political Behavior; Researching Contentious Politics**

*The problem approach to political behavior with emphasis on theoretical and empirical studies on selected aspects of the political process.*

Prerequisite: GVPT201. Restriction: Must be in Government & Politics program. This course will critically assess empirical research on the causes and consequences of contentious political behaviors such strikes, riots, peaceful protests, and insurrections with a particular focus on efforts to address these questions using quantitative methods. Topics we will address throughout the course include: why some protest campaigns succeed while others fail, the role of social media in coordinating demonstrations, and the impact of riots on public opinion and government policy.

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| 0101 | Neil Lund | Seats (Total: 25) |
| | TuTh 2:00pm - 3:15pm | TYD 2111 |

**GVPT429T** **Problems in Political Behavior; Social Media Politics**

*The problem approach to political behavior with emphasis on theoretical and empirical studies on selected aspects of the political process.*

Prerequisite: GVPT201. Restriction: Must be in Government & Politics program. This seminar presents students with an integrated view of media politics, combining political psychology, computational social science, and network analysis. The goal is to provide students with the technical know-how to work with social media data and the knowledge to interpret relevant information. In this seminar, students will learn to process social media data, program survey experiments, and identify political narratives in a multiplatform environment. The seminar will introduce students to the computational techniques required for big social media data analyses.

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| 0101 | Ernesto Calvo | Seats (Total: 25) |
| | TuTh 3:30pm - 4:45pm | TYD 2111 |

**GVPT431** **Introduction to Constitutional Law**

*Prerequisite: GVPT170 and GVPT331. Restriction: Must be in one of the following programs (Government & Politics; Government & Politics: International Relations) ; and junior standing or higher.*

*A systematic inquiry into the general principles of the American constitutional system, with special reference to the role of the judiciary in the interpretation and enforcement of the federal constitution.*

Jointly offered with MLAW358X. Credit only granted for GVPT431 or MLAW358X.

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| 0101 | Martin Kobren | Seats (Total: 70) |
| | MW 2:00pm - 3:15pm | TYD 0117 |

**GVPT439B** **Seminar in Public Law; First Amendment: Free Speech, Religion, and the Constitution**

*Reading, writing, and research on topics in public law. Both substantive issues and methodological approaches will be considered.*

Restriction: Must be in Government & Politics program or Government & Politics: International Relations program. Prerequisite: GVPT431 or GVPT432. Credit only granted for GVPT439B or MLAW358F. The purpose of this course is to explore the various facets of the First Amendment. Why protect speech and the practice of religion? Are these "special?" What is speech? What is religion? Do rights to speech and religion trump other rights? In this course, we will examine various "types" of speech and their relationship to the First Amendment as well as the religion provisions of the First Amendment: the Free Exercise Clause and the Establishment Clause.

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| 0101 | Michael Spivey | Seats (Total: 30) |
| | MW 1:00pm - 2:15pm | TYD 0111 |

**GVPT439M** **Seminar in Public Law; Moot Court**

(Perm req)

*Reading, writing, and research on topics in public law. Both substantive issues and methodological approaches will be considered.*

Prerequisite: GVPT439L or permission of the instructor. To request permission for this course, contact Professor Michael Spivey at mspivey@umd.edu. Restriction: Must be in Government & Politics or Government & Politics: International Relations program. This is your chance to argue a case before the Supreme Court. (Well, Not THE Supreme Court but a moot Supreme Court.) In Moot Court, students argue a hypothetical constitutional law case before a panel of experienced lawyers and jurists. Students will learn the skills of written and oral advocacy in anticipation of participation in the American Moot Court Association regional and national competitions. No prior experience in appellate advocacy is necessary.

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| 0101 | Michael Spivey | Seats (Total: 20) |
| | MW 3:30pm - 4:45pm | TYD 0111 |

**GVPT439N** **Seminar in Public Law; Moot Court II**

(Perm req)

*Reading, writing, and research on topics in public law. Both substantive issues and methodological approaches will be considered.*

Prerequisite: : GVPT439M and permission of the instructor. To request permission for this course, contact Professor Michael Spivey at mspivey@umd.edu.

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| 0101 | Michael Spivey<br>MW 3:30pm - 4:45pm | Seats (Total: 15)<br>TYD 0111 | |

**GVPT443** **Contemporary Political Theory**

*Prerequisite: GVPT241. Restriction: Must be in Government & Politics program.*

*A survey of the principal political theories and ideologies set forth in the works of writers from Karl Marx to the present.*

**Contact department for information to register for this course.**

**GVPT445** **Marxism and Postmarxism**

*Restriction: Must be in a major within BSOS-Government & Politics department.*

*The study of Marxist thought and an assessment of the critical transformations and reassessments of the theory and practice of Marxism.*

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| 0101 | Vladimir Tismaneanu<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>TYD 0101 | |

**GVPT449D** **Seminar in Political Philosophy; Individual and Group Decision-Making**

*Reading, writing, and research on topics in political philosophy. Both substantive issues and methodological approaches will be considered.*

Restriction: Must be in Government & Politics program or Government & Politics: Inter national Relations program. Credit granted for PHPE400 or GVPT449D. Foundational issues that arise within the theories of rational choice that underlie the treatments of decision-making found in economics, politics, and the other social sciences. The course is focused on individual decisions (rational choice theory), strategic decisions (game theory) and group decisions (social choice theory). In addition to presenting the formal models of decision making, we also discuss to what extent these mathematical theories explain social interactions. An important aspect of the course is to introduce students to the ways in which economic analysis has been applied to issues in social and political philosophy. Readings will be drawn from the literature in economics, psychology, statistics and political science, as well as philosophy.

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| 0101 | Eric Pacuit<br>MW 12:00pm - 12:50pm<br>F 10:00am - 10:50am | Seats (Total: 2)<br>TWS 1310<br>ASY 3217 | <br><br>Discussion |
| 0102 | Eric Pacuit<br>MW 12:00pm - 12:50pm<br>F 11:00am - 11:50am | Seats (Total: 2)<br>TWS 1310<br>ASY 3217 | <br><br>Discussion |

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| 0103 | Eric Pacuit | Seats (Total: 2) | |
| | MW 12:00pm - 12:50pm<br>F 1:00pm - 1:50pm | TWS 1310<br>PLS 1113 | Discussion |

**GVPT454H** **Seminar in the International Relations of China**

(Perm req)

*Prerequisite: GVPT200. Restriction: Must be in Government & Politics program; and junior standing or higher. Or must be in Government & Politics: International Relations program; and junior standing or higher.*

*Explores the foreign relations behavior of the People's Republic of China, with focus on the contemporary era.*

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| 0101 | Margaret Pearson | Seats (Total: 20) |
| | TuTh 2:00pm - 3:15pm | HJP 2217 |
| | *Restriction: Must be in Government & Politics Honors Program.* | |

**GVPT457** **American Foreign Relations**

*Prerequisite: GVPT200. Restriction: Must be in Government & Politics program; and junior standing or higher.*

*The principles and machinery of the conduct of American foreign relations and an analysis of the major foreign policies of the United States.*

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| 0101 | Shannon Carcelli | Seats (Total: 75) |
| | TuTh 12:30pm - 1:45pm | TYD 0117 |

**GVPT459B** **Seminar in Comparative Politics; Comparative Political Institutions**

*Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.*

Prerequisite: GVPT280 or GVPT282. Restriction: Must be in Government & Politics program. This course provides a general introduction to comparative political institutions. It explores basic political concepts that relate to issues of representation, elections, and congresses.

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| 0101 | Youngjoon Lee | Seats (Total: 30) |
| | TuTh 12:30pm - 1:45pm | TYD 2109 |

**GVPT459C** **Seminar in Comparative Politics; Race and Ethnic Politics in Comparative Perspective**

*Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.*

Restriction: Must be in Government & Politics program or Government & Politics: International Relations program. This course examines the multiple ways in which race and ethnicity become meaningful categories shaping political behavior. We will examine how race and ethnicity are socially constructed, why peopleaccept (and sometimes reject) the categories imposed on them, and how categories and identities become drivers of political behavior. The course takes a comparative perspective on identity politics, looking at cases from multiple regions around the world.

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| 0101 | Marcus Johnson | Seats (Total: 30) |
| | TuTh 3:30pm - 4:45pm | TYD 2109 |

**GVPT459D** **Seminar in Comparative Politics; Democracy and Democratization**

*Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.*

Prerequisite: GVPT280 or GVPT282. Restriction: Must be in Government & Politics or Government & Politics: International Relations program. This course surveys the big debates about the nature of democracy and democratization. The course is organized around five broad themes: 1) core concepts and definitions of democracies and non-democratic regimes, 2) the nature and causes of democratization, 3) democratic principles, 4) democratic forms and institutional variation, and 5) contemporary issues in democratic politics, including democratic backsliding. Throughout the course, we will be exploring how these different elements of democracy exist around the world by using cases from Europe, Asia, the Middle East and the United States.

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| 0201 | Allison Berland | Seats (Total: 30) |
| | MW 3:30pm - 4:45pm | TYD 1101 |

**GVPT459W** **Seminar in Comparative Politics; Revolutions and Revolutionary Movements**

*Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.*

Prerequisite: GVPT280 or GVPT282. Restriction: Must be in Government & Politics program or Government & Politics: International Relations program. This course examines revolution as a means of political and social change. In the first part of the course, we will examine competing theories about the causes, processes, actors and outcomes of revolution. In the second part of the course, we will apply these theories and approaches to case studies of contemporary revolutions from the 19th century to thepresent.

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| 0101 | Jennifer Wallace | Seats (Total: 30) |
| | TuTh 11:00am - 12:15pm | TYD 1114 |

**GVPT459X** **Seminar in Comparative Politics; Political Radicalism: Comparing Communism and Fascism**

*Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.*

Restriction: Must be in Government & Politics program. This course will examine the main similarities and distinctions between communist and fascist radical ideologies, movements, and political systems. The course will highlight the centrality of ideology in totalitarian experiments and the relationship between ideology and terror as underpinnings of the ideocratic despotisms. We will explore contemporary implications of totalitarianism.

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| 0101 | Vladimir Tismaneanu | Seats (Total: 30) |
| | TuTh 11:00am - 12:15pm | TYD 1102 |

**GVPT459Y** **Seminar in Comparative Politics; Comparative Political Ideology**

*Reading, writing, and research on topics in comparative politics. Both substantive issues and methodological approaches will be considered.*

Recommended Prerequisites: GVPT280 and GVPT282. Restriction: Must be in Government & Politics program. A comparative survey of leading political ideologies, including their origins, core tenets, and implications. Specific attention is given to ideology's relationship to material practice, both western and non-western interpretations, and ramifications for contemporary politics. Includes nationalism, populism, religious fundamentalism, liberalism, socialism, and neoliberalism, among other influential ideologies.

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| 0101 | Calvert Jones | Seats (Total: 30) |
| | MW 2:00pm - 3:15pm | TYD 1101 |

**GVPT474** **Political Parties**

*Prerequisite: GVPT241 and GVPT170. Restriction: Must be in Government & Politics program.*

*A descriptive and analytical examination of American political parties, nominations, elections, and political leadership.*

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| 0101 | David Karol | Seats (Total: 30) |
| | TuTh 11:00am - 12:15pm | TYD 0101 |

**GVPT479K** **Seminar in American Politics; Presidential Elections**

*Reading, writing, and research on topics in American politics. Both substantive issues and methodological approaches will be considered.*

Prerequisite: GVPT170 Restriction: Must be in Government & Politics program or Government & Politics: International Relations program. This class will explore American Presidential elections. While noting the current campaign unfolding around us, we are interested in the process, not just the events of 2024. We examine the institutions that structure candidates' and voters' behavior and how they have developed historically. We also look at American Presidential elections in comparative perspective, noting electoral arrangements in other countries.

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| 0101 | David Karol | Seats (Total: 30) |
| | TuTh 12:30pm - 1:45pm | TYD 0102 |

**GVPT479P** **Seminar in American Politics; Historical and Demographic Shifts in the U.S. Congress**

*Reading, writing, and research on topics in American politics. Both substantive issues and methodological approaches will be considered.*

Prerequisite: GVPT170 Restriction: Must be in Government & Politics program or Government & Politics: International Relations program. This course will examine specific events and activities that have sparked major shifts in the organizational structure, composition, and productivity of the U.S. Congress. In so doing, the course will explore the relationship that the legislative branch has with its partnering governmental branches and agencies while examining various internal organizational changes. This course will survey congressional shifts while also providing tools to better understand the traditional framework of the U.S. Congress.

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| 0101 | Breanna Gray | Seats (Total: 30) |
| | TuTh 2:00pm - 3:15pm | TYD 1101 |

**GVPT485** **Government and Politics of the Middle East**

*Prerequisite: GVPT200; and (GVPT282 or GVPT280). Restriction: Must be in Government & Politics program. Credit only granted for: GVPT485 or GVPT459E. Formerly: GVPT459E.*

*A comparative study of the governmental systems and political processes of Middle Eastern countries, with special emphasis on the problems of nation-building in emergent countries.*

This is a Global Classrooms course, developed in partnership with the Office of International Affairs (OIA) to provide virtual opportunities for global engagement. Global Classrooms can range from embedded experiences to immersive, project-based collaboration. Learn more about Global Classrooms: go.umd.edu/gc-umd.

**Contact department for information to register for this course.**

**GVPT487** **Government and Politics of China**

*Restriction: Must be in one of the following programs (Government & Politics; Government & Politics: International Relations) ; and junior standing or higher. Credit only granted for: GVPT359A or GVPT487. Formerly: GVPT359A.*

*Discussion of major issues in the study of the domestic politics of the People's Republic of China.*

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| 0101 | Margaret Pearson | Seats (Total: 30) |
| | TuTh 11:00am - 12:15pm | MMH 1304 |

**GVPT600** **Professionalization Seminar in Political Science**

*Restriction: Must be in Government and Politics (Doctoral) program.*

*An introduction to the practices, norms, and expectations of professional political science.*

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| 0101 | Kristina Miler, Ernesto Calvo | Seats (Total: 12) |
| | W 10:00am - 11:00am | TYD 1111 |

**GVPT601** **Research Design for Political Analytics**

*Restriction: Must be in the Applied Political Analytics Master of Science program; or permission of department.*

*A graduate-level introduction to empirical research techniques used in political science. The course covers different approaches to answering empirical research questions and addresses the strengths and limitations of different research decisions. Students who successfully complete the course will be able to conceptualize and design an empirical research project, as well as evaluate the research designs used in the research projects conducted by other social scientists.*

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| 0101 | Richard Engstrom<br>W 6:00pm - 8:45pm | Seats (Total: 15)<br>TYD 1114 |
| PCA1 | Richard Engstrom<br>W 6:00pm - 8:45pm | Seats (Total: 10)<br>TYD 1114 |
| | *Must be in Applied Political Analytics (MS). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**GVPT604** **Introduction to War and Armed Conflict in World Politics**

(Perm req)

*Recommended: GVPT200. Restriction: Must be in the MA in International Relations program; or permission of Government and Politics department.*

*Examines major theories of both international and civil wars and reviews major empirical studies that test theories of conflict. The topics include the onset of armed conflict, the duration and outcomes of wars, and the durability of peace in the aftermath of wars. The focus is on developing an understanding of central debates in the literature and primary empirical findings from quantitative and cross-national analyses that are of policy relevance.*

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| 0101 | Deniz Cil<br>W 3:00pm - 5:45pm | Seats (Total: 30)<br>SQH 1117 |
| PCR1 | Deniz Cil<br>W 3:00pm - 5:45pm | Seats (Total: 15)<br>SQH 1117 |
| | *Must be in the International Relations (MA) program. Golden ID students are not eligible for this section.* | |

**GVPT622** **Quantitative Methods For Political Science**

*Introduction to quantitiative methods of data analysis, with emphasis on statistical methods and computer usage. Measures of association, probability, correlation, linear regression estimation techniques, introductory analysis of variance, and use of package computer programs.*

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| 0101 | David Cunningham<br>Th 2:00pm - 4:45pm<br>F 10:00am - 12:00pm | Seats (Total: 12)<br>TYD 1111<br>TYD 1111 | <br><br>Discussion |
| PCR1 | Jacob Aronson<br>F 11:00am - 1:45pm<br>Tu 10:00am - 12:00pm | Seats (Total: 40)<br>TYD 2111<br>TWS 1107 | <br><br>Discussion |
| | *Must be in the International Relations (MA) program. Golden ID students are not eligible for this section.* | | |

**GVPT628** **Advanced Topics in Coding for Political Analysis**

*Students will explore advanced statistical software relevant to political data analysis. Specific topics may include Python, SQL, and GIS, among others. Provides students with advanced programming and coding skills valuable to employers, and expands abilities beyond R.*

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| 0101 | Neil Lund<br>Tu 6:00pm - 8:45pm | Seats (Total: 20)<br>ATL 1410 | |
| PCA1 | Neil Lund<br>Tu 6:00pm - 8:45pm | Seats (Total: 10)<br>ATL 1410 | |
| | *Must be in Applied Political Analytics (MS). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | | |

**GVPT635** **Public Opinion**

*Restriction: Must be in the Applied Political Analytics Master of Science program; or permission of department.*

*Investigate how citizens in a democracy think about politics, form attitudes, and how public opinion shapes and is shaped by the political environment. While being exposed to core debates in public opinion and the study of public opinion, students will use a number of surveys that have been central to advancing our knowledge of public opinion.*

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| PCA1 | Candace Turitto<br>W 5:00pm - 7:45pm | Seats (Total: 15)<br>TYD 0101 | |
| | *Must be in Applied Political Analytics (MS). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | | |

**GVPT708A** **Seminar in International Relations Theory; International Relations Theory**

*An examination of the major approaches, concepts, and theories in the study of world politics with special emphasis on contemporary literature.*

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| 0101 | Shannon Carcelli<br>Tu 9:30am - 12:15pm | Seats (Total: 12)<br>TYD 1136 |
| 0201 | Hyunki Kim<br>Th 2:00pm - 4:45pm<br>*Restricted to students in the MAIR combined BA/MA program.* | Seats (Total: 15)<br>TWS 1100 |
| PCR1 | Hyunki Kim<br>Th 2:00pm - 4:45pm<br>*Must be in the International Relations (MA) program. Golden ID students are not eligible for this section.* | Seats (Total: 40)<br>TWS 1100 |

**GVPT729A** **Special Topics in Quantitative Political Analysis; Advanced Maximum Likelihood Estimation**

*An intensive examination of special topics in quantitative methods of political analysis in such areas as survey research methods, exploratory data analysis, advanced data management techniques, or advanced methods of policy analysis.*

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| 0101 | Michael Hanmer<br>Tu 9:30am - 12:15pm | Seats (Total: 12)<br>TYD 1111 |

**GVPT729B** **Special Topics in Quantitative Political Analysis; Applied Social Data Science**

*An intensive examination of special topics in quantitative methods of political analysis in such areas as survey research methods, exploratory data analysis, advanced data management techniques, or advanced methods of policy analysis.*

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| 0101 | Johanna Birnir, Ernesto Calvo<br>M 1:00pm - 3:45pm | Seats (Total: 12)<br>TYD 1136 |

**GVPT761** **International Political Economy**

*Recommended: GVPT708.*

*Major issues in international political economy including such matters as the monetary system, trade, debt, and development.*

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| PCR1 | Jennifer Wallace<br>M 2:00pm - 4:45pm<br>*Must be in the International Relations (MA) program. Golden ID students are not eligible for this section.* | Seats (Total: 40)<br>TWS 0223 |

**GVPT770** **Seminar in American Political Institutions**

*This is the core institutions seminar in American politics. The course surveys the primary literature in the field and addresses substantively significant topics related to the study of political institutions in the American context.*

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| 0101 | Breanna Gray | Seats (Total: 12) |
| | Th 9:30am - 12:15pm | TYD 1111 |

**GVPT803** **Seminar in International Political Organization**

*Restriction: Must be in Government and Politics PhD program.*

*An overview and critical analysis of contemporary theory on international organizations and global governance.*

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| PCR1 | Deniz Cil | Seats (Total: 30) |
| | Tu 2:00pm - 4:45pm | JMZ 0122 |
| | *Must be in the International Relations (MA) program. Golden ID students are not eligible for this section.* | |

**GVPT849** **Readings in Government and Politics**

(Perm req)

*Guided readings and discussions on selected topics in political science.*

**Contact department for information to register for this course.**

**GVPT870** **Interest Groups Politics in the United States**

*Recommended: GVPT770.*

*The theory and practice of interest group politics in the United States.*

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| 0101 | Kristina Miler | Seats (Total: 12) |
| | W 12:30pm - 3:15pm | TYD 1111 |

**GVPT888A** **Selected Topics in Comparative Governmental Institutions; Authoritarianism**

*An examination of special topics in comparative politics.*

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|---|---|---|
| 0101 | Calvert Jones | Seats (Total: 12) |
| | Tu 12:30pm - 3:15pm | TYD 1136 |

**GVPT888D** **Selected Topics in Comparative Governmental Institutions; Political Economy of Development**

*An examination of special topics in comparative politics.*

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|---|---|---|
| 0101 | John McCauley | Seats (Total: 12) |
| | Th 9:30am - 12:15pm | TYD 1136 |

**GVPT889B** **Selected Topics in Area Problems in International Relations; International Relations Theory and East Asia**

*Special topics concerning regional problems in the relations of states.*

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|---|---|---|
| 0101 | Scott Kastner<br>W 12:30pm - 3:15pm | Seats (Total: 12)<br>TYD 1136 |

**GVPT898** **Pre-Candidacy Research**

*Guided readings and discussions on selected topics in political science.*

**Contact department for information to register for this course.**

**GVPT899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# HACS ACES-Cybersecurity Fall 2024

**HACS100** **Foundations in Cybersecurity I**

*Restriction: Must be a first-semester student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program.*

*Interdisciplinary foundational course of the ACES program. Through lectures, lab activities, and discussions, students will learn and practice various aspects of cybersecurity. Weekly technical lectures will introduce students to the operating system UNIX. Students will partner with the Division of Information Technology in a project to engage the University of Maryland community in a cyber-hygiene and cyber-ethics campaign based on the concepts learned in class.*

Restriction: Must be a student in the ACES (Advanced Cybersecurity Exper ience for Students) Living-Learning Program.

| | | |
|---|---|---|
| 0101 | Michel Cukier, Cassandra Harrington<br>M 9:00am - 9:50am<br>W 9:00am - 9:50am | Seats (Total: 40)<br>PFR 1111<br>PFR 1111 |
| 0201 | Michel Cukier, Cassandra Harrington<br>M 10:00am - 10:50am<br>W 10:00am - 10:50am | Seats (Total: 40)<br>PFR 1111<br>PFR 1111 |

**HACS200** **Applied Cybersecurity Foundations II**

*Prerequisite: Minimum grade of C- in HACS101. Restriction: Must be a third-semester student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program.*

*Students will apply the skills learned in HACS 100 and 101 to practice cybersecurity research through team led projects employing honeypots, carrying that project through all stages - proposal, implementation, and analysis. Weekly lectures will supplement project work by addressing trends observed in honeypot attacks and protections needed, along with data collection and analysis tools, and other foundational cybersecurity concepts.*

Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program.

| | | |
|---|---|---|
| 0101 | Michel Cukier<br>TuTh 2:00pm - 2:50pm | Seats (Total: 50)<br>PHY 4311 |
| 0201 | Michel Cukier<br>TuTh 3:30pm - 4:20pm | Seats (Total: 50)<br>PHY 4311 |

**HACS202** **Group Project in Cybersecurity**

*Restriction: Must be a first-year student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program; and cannot have been an ACES Living-Learning Program student (i.e., have taken HACS100, HACS101 and HACS200).*

*The group project in this course will combine technical, analytical, and communication skills, further engaging students in the practice of cybersecurity. Students will learn about design concepts and data analysis as they engage in a team project designing, deploying, and collecting and analyzing data from a honeypot. The hands-on nature of the course will give students experiential insight about how and why attackers attack and how to engage in protective measures to prevent attacks.*

The group project in this course will combine technical, analytical, and communication skills, further engaging students in the practice of cybersecurity. Students will learn about design concepts and data analysis as they engage in a team project designing, deploying, and collecting and analyzing data from a honeypot. The hands-on nature of the course will give students experiential insight about how and why attackers attack and how to engage in protective measures to prevent attacks.

| | | |
|---|---|---|
| 0101 | Bertrand Sobesto<br>M 4:00pm - 6:45pm | Seats (Total: 52)<br>PHY 4311 |

**HACS208C** **Seminar in Cybersecurity; Interpersonal Cyber Communications**

*Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.*

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for students)Living Learning Program This course provides students with an introduction to professional communication in the cybersecurity field. Students will explore written and oral communication with a focus on understanding their professional role and audience. Case studies will give students an opportunity to experience the multi-faceted decisions that come with communicating cybersecurity topics.

| | | |
|---|---|---|
| 0101 | Christopher Sakelaris | Seats (Total: 26) |
| | TuTh 9:30am - 10:45am | PFR 1105 |

**HACS208N** **Digital Forensics**

*Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program.*

*Explores the various fields of digital forensics, such as memory, hard drive, and network traffic analysis. This course covers the legalities involved with forensic investigations and the wide variety of digital forensics tools, including both open source and proprietary. This course includes the different types of forensic artifacts that can be acquired and analyzed and review the careers and certifications relevant to the field.*

| | | |
|---|---|---|
| 0101 | Stephanie Dachs | Seats (Total: 26) |
| | W 4:00pm - 6:45pm | PFR 1111 |

**HACS208P** **Beyond Technology, the Policy Implications of Cyberspace**

*Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program.*

*Explores the key issues facing policy makers attempting to manage the problem of cybersecurity from its technical foundations to the domestic and international policy considerations surrounding governance, response, and critical infrastructure risk management. The course is designed for students with little to no background in information technology, and will provide the principles to understand the current debates shaping a rapidly evolving security landscape.*

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living Learning Program.

| | | |
|---|---|---|
| 0101 | Charles Harry | Seats (Total: 26) |
| | TuTh 11:00am - 12:15pm | PFR 1111 |

**HACS287** **Undergraduate Research in Cybersecurity**

(Perm req)

*Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program; and permission of UGST-HCOL-ACES Cybersecurity Program.*

*The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in research in order to gain greater insight into a specific area within cybersecurity, obtain an appreciation for the subtleties and difficulties associated with the production of knowledge and fundamental new applications, and to prepare for graduate school and the workforce.*

**Contact department for information to register for this course.**

**HACS297** **Cybersecurity Experience Reflection**

(Perm req)

*Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Living-Learning Program; and permission of UGST-HCOL-ACES Cybersecurity Program.*

*Cybersecurity experience is defined as an experiential learning activity either with a University of Maryland entity (such as the Division of Information Technology, the ACES competition team or in an ACES outreach program), or with an external organization that will provide valuable, hands-on experience to supplement the knowledge learned in the other ACES coursework.*

Permission of department required.

| | | |
|---|---|---|
| 0101 | Sarah Herberger<br>TuTh 12:30pm - 1:45pm | Seats (Total: 25)<br>PFR 1111 |
| 0201 | Cassandra Harrington<br>TuTh 11:00am - 12:15pm | Seats (Total: 25)<br>PHY 4311B |

**HACS408E** **Advanced Seminar in Cybersecurity**

(Perm req)

*Explores various lenses of cybersecurity in order to promote an interdisciplinary understanding of the field. Although each section may focus on a different topic, each integrates active student engagement, communication, critical communication, critical thinking, and teamwork.*

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program and course will need a permission stamp for students to register. This course will introduce students to the tools and techniques required to analyze the security properties of various systems. Topics covered will include assembly language, executable file formats, operating system internals, and the static/dynamic analysis of compiled binaries. Students will apply these concepts to real-world scenarios like malware analysis and vulnerability analysis with interactive labs, at-home assignments, and a final project.

| | | |
|---|---|---|
| 0101 | Chase Kanipe, Luke Mains<br>W 5:00pm - 7:45pm | Seats (Total: 26)<br>PHY 4311B |

**HACS408L** **Analytical and Forensic Techniques for Cybersecurity**

*Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program.*

*Explores forensic artifacts contained in digital devices, security mechanisms available to protect digital devices and mechanisms available to cybersecurity professionals for analysis of digital devices. Topics include file structure and recovery of IoT and cell phone forensic data, network data capture and analysis, enterprise mobile device management analysis and forensic investigation of digital devices (IoT, telematics systems, etc.) that interact with cell phone and other devices. Incident response, timeline analysis, and detection and analysis of artifacts will be explored in a hands-on and lab-centric course using a variety of open-source tools and commercial cloud services.*

Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program.

| | | |
|---|---|---|
| 0101 | Amanda Johnson<br>Th 5:00pm - 7:45pm | Seats (Total: 26)<br>PHY 4311B |

**HACS408M** **Introduction to Cyber Threats and Risk Management**

*Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program.*

*Provides an exploration of cyber risk management and present-day cyber threats, their impacts, and their mitigations. Students will take a multi-disciplinary approach to understanding threats and risks including the technical, policy, and social aspects. This course is guided by real-world cyber threats and examples.*

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program.

| | | |
|---|---|---|
| 0101 | John McGahagan<br>Tu 5:30pm - 8:15pm | Seats (Total: 26)<br>PHY 4311 |

**HACS408O** **Internet of Things Security**

(Perm req)

*Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program.*

*This increasingly interconnected world brings a need for understanding cybersecurity challenges associated with embedded devices and systems. This course will expose students to topics in Internet of Things (IoT) and Cyber Physical System (CPS) device types, IoT/CPS threat categories, security services, distributed networking, activity privacy, and intrusion detection for embedded environments. In addition to individual homework assignments, students will participate in a semester long group project involving research, design, and implementation.*

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program and course will need a permission stamp for students to register.

| | | |
|---|---|---|
| 0101 | Priyanka Ranade<br>W 5:00pm - 7:45pm | Seats (Total: 26)<br>ONLINE |

**HACS479** **Undergraduate Research in Cybersecurity**

(Perm req)

*The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in research in order to gain greater insight into a specific area within cybersecurity, obtain an appreciation for the subtleties and difficulties associated with the production of knowledge and fundamental new applications, and to prepare for graduate school and the workforce.*

**Contact department for information to register for this course.**

**HACS498** **Cybersecurity Group Problem Solving**

(Perm req)

*The Advanced Cybersecurity Experience for Students (ACES) program encourages its students to engage in team problem solving activities in order to gain greater insight into a specific area within cybersecurity and to obtain an appreciation for the subtleties and difficulties associated with these activities in order to prepare students for graduate school and the workforce. Students engage in a semester long problem solving or development project under the mentorship of a industry specialist and with the guidance of university faculty. Through the exercise the students will develop teamwork experience and professional communication skills in addition to experience of the project itself. The project might be evaluation, creation, testing or analysis of some area of cybersecurity as needed by the mentor-sponsor. A contract of what will be accomplished is required must be agreed upon by the mentor, the student and the ACES leadership before the project can begin.*

Restriction: Must be a student in the ACES (Advanced Cybersecurity Experience for Students) Minor Program.

| | | |
|---|---|---|
| 0101 | Thomas Woods | Seats (Total: 10) |
| | Contact instructor or department for details. | |
| 0201 | Elizabeth Walden | Seats (Total: 12) |
| | Contact instructor or department for details. | |

# HBUS Interdisciplinary Business Honors Fall 2024

**HBUS100** **The Future of Work: Interdisciplinary Foundations and Horizons of Business**

*What should the future of work look like? Traditional hierarchies have come under increased scrutiny today for many reasons especially because it may not promote diversity, equity, and inclusion in the workplace. Moreover, they may not encourage experimentation, innovation, and business success. Not surprisingly then, companies are redefining what the future of work should look like. What are the shared responsibilities of an employer and employee? How can technology improve productivity and promote equity? What culture should businesses promote to welcome all employees and ensuring accountability? This course will address these and related questions.*

| | | |
|---|---|---|
| 0101 | Jui Ramaprasad | Seats (Total: 70) |
| | TuTh 9:30am - 10:45am | VMH 1407 |

**HBUS200** **Business and Deliberation: Innovation and Equity in Conditions of Uncertainty and Diversity**

*Prerequisite: HBUS100 and HBUS105.*

*How can managers better promote a diversity of thought within their organization? When business leaders tap into the plurality of perspectives among their employees, they can improve on many dimensions. Unfortunately, many businesses fail to create a culture of inclusion that puts them at a disadvantage when managing uncertainty. How can managers better listen to internal and external stakeholders? How can these diverse perspectives better inform business decision making? How can businesses with multiple objectives - such as triple bottom line companies - better engage with their employees, customers, and corporate partners? This course will address these and related questions.*

| | | |
|---|---|---|
| 0101 | Nicole Coomber | Seats (Total: 60) |
| | M 5:00pm - 7:40pm | VMH 1407 |

**HBUS307** **Business Experience Reflection**

(Perm req)

*Restriction: Must be a student in the Interdisciplinary Business Honors Program; and permission of the IBH Program.*

*This course includes reflection on a completed business experience and preparation for future professional experiences. A business experience is defined as an experiential learning activity either with an external organization, i.e. an internship, or with a University of Maryland organization, that will provide valuable, hands-on experiences to supplement the knowledge learned in the IBH curriculum.*

| | | |
|---|---|---|
| 0101 | Elizabeth Galvin | Seats (Total: 25) |
| | TuTh 9:30am - 10:45am | PFR 1111 |

# HDCC Design Cultures and Creativity Fall 2024

**HDCC105** **Introduction to Design Cultures and Creativity I**

*Restriction: Must be in the Design Cultures and Creativity Honors College Living/Learning program.*

*History, concepts, and technologies of creative design expression, coupled with an introduction to development for particular platforms and devices.*

| | | |
|---|---|---|
| 0101 | Damien Pfister | Seats (Total: 70) |
| | TuTh 11:00am - 12:15pm | PFR 1105 |

**HDCC201** **Capstone Proposal Through Design Thinking**

*Prerequisite: HDCC105 and HDCC106. Restriction: Must be in the Design Cultures and Creativity Honors College Living/Learning program.*

*Engages principles of design thinking to prepare second-year students in the Design Cultures and Creativity (DCC) program to create a proposal for their spring Capstone Project.*

| | | |
|---|---|---|
| 0101 | Jin Choi | Seats (Total: 21) |
| | W 9:00am - 9:50am | PFR 0111 |

| | | |
|---|---|---|
| 0201 | Jin Choi<br>W 10:00am - 10:50am | Seats (Total: 21)<br>PFR 0111 |
| 0301 | Jin Choi<br>W 11:00am - 11:50am | Seats (Total: 21)<br>PFR 0111 |

**HDCC208A** **Seminar in Digital Cultures and Creativity; Music Composition**

*An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.*

| | | |
|---|---|---|
| 0101 | William Evans<br>Th 12:30pm - 3:00pm | Seats (Total: 13)<br>PAC 1108 |

**HDCC208F** **Seminar in Digital Cultures and Creativity; Creativity through Visual Communication**

*An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.*

| | | |
|---|---|---|
| 0101 | Anat Szendro Sevilla<br>W 5:00pm - 7:30pm | Seats (Total: 13)<br>PFR 0111 |

**HDCC208J** **Seminar in Digital Cultures and Creativity; Gameplay and Game Mechanics**

*An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.*

| | | |
|---|---|---|
| 0101 | Jessica Lu<br>Th 4:00pm - 6:30pm | Seats (Total: 13)<br>PFR 0111 |

**HDCC208P** **Seminar in Digital Cultures and Creativity; Pixels on the Screen**

*An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.*

| | | |
|---|---|---|
| 0101 | Cliff Bakalian<br>TuTh 9:30am - 10:45am | Seats (Total: 13)<br>PFR 0111 |

**HDCC208Q** **Seminar in Digital Cultures and Creativity; Translating and Transcoding Media and Technology**

*An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.*

| | | |
|---|---|---|
| 0101 | Grant Bollmer<br>MW 3:30pm - 4:45pm | Seats (Total: 13)<br>PFR 0111 |

**HDCC208T** **Seminar in Digital Cultures and Creativity; Text(iles)**

*An advanced seminar in specific aspects of digital culture and creativity, designed to keep students abreast of the latest developments in new media and the online world. Possible topics include mobile gaming, digital storytelling, and electronic music.*

| | | |
|---|---|---|
| 0101 | Jonathan Reyes<br>TuTh 11:00am - 12:15pm | Seats (Total: 13)<br>PFR 0111 |

**HDCC379** **Design Cultures and Creativity Independent Study**

(Perm req)

*Involves research and/or creative scholarship directed by individual DCC faculty outside of the formal classroom structure.*

| | | |
|---|---|---|
| 0101 | Jessica Lu, Damien Pfister, Grant Bollmer<br>Contact instructor or department for details. | Seats (Total: 10) |

# HEBR Hebrew Fall 2024

**HEBR106** **Intensive Elementary Hebrew I**

*Prerequisite: Must have appropriate World Language Placement Test (WLPT) score. Credit only granted for: HEBR111 or HEBR106.*

*An intensive study of fundamentals of Hebrew reading, writing, listening and Israeli culture. Covers present tense in all verb categories, basic syntax and builds vocabulary.*

| | | |
|---|---|---|
| 0101 | Avital Karpman<br>TuTh 11:00am - 12:15pm<br>Class time/details on ELMs | Seats (Total: 15)<br>JMZ 3203<br>ONLINE |
| 0201 | Avital Karpman<br>TuTh 2:00pm - 3:15pm<br>Class time/details on ELMs | Seats (Total: 15)<br>JMZ 3203<br>ONLINE |

**HEBR112** **Elementary Hebrew II**

*Prerequisite: HEBR111; or must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not have completed HEBR103; and must not have completed HEBR104. Credit only granted for: (HEBR103 and HEBR104) or HEBR112.*

*Continuation of HEBR 111.*

**Contact department for information to register for this course.**

**HEBR206** **Intermediate Intensive Hebrew I**

*Prerequisite: Must have completed HEBR107 OR HEBR112; or must have appropriate World Language Placement Test (WLPT) score. Restriction: Must not be a fluent/native speaker of Hebrew. Credit only granted for: HEBR206 or HEBR211.*

*Provides a comprehensive review of the fundamentals of Hebrew grammar and oral skills, and introduces new skills in future tense verb conjugation, and communication in reading, writing, listening and speaking.*

| | | |
|---|---|---|
| 0101 | Avital Karpman | Seats (Total: 15) |
| | TuTh 12:30pm - 1:45pm<br>Class time/details on ELMs | JMZ 3203<br>ONLINE |

**HEBR212** **Intermediate Hebrew II**

*Prerequisite: HEBR211; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not have completed HEBR203; and must not have completed HEBR204. Credit only granted for: (HEBR203 and HEBR204) or HEBR212.*

*Continuation of HEBR211.*

**Contact department for information to register for this course.**

**HEBR249C** **Special Topics in Hebrew Studies; Israeli Culture in Television, Film and Music**

*A broad range of cultural and societal topics pertaining to the communication of Hebrew.*

Modern Israeli film, television and music through a cultural and historical lens. Taught in Hebrew.

| | | |
|---|---|---|
| 0101 | Aliza Sandalon | Seats (Total: 15) |
| | Class time/details on ELMs | ONLINE |

**HEBR298B** **Introduction to the Hebrew Bible/Old Testament**

*Cross-listed with: JWST262, ENGL262. Credit only granted for: JWST262, HEBR298B, or ENGL262.*

*Origins of the Hebrew Bible (Old Testament), with attention to literary formations, archaeology, and social-political settings. Explorations of major questions, including who wrote the Bible, and when; relationships of the biblical tradition to the mythology and religious structures of ancient Israel's near eastern neighbors; and dynamics of politics, religious leadership, and law.*

| | | |
|---|---|---|
| 0101 | Stephanie Cooper | Seats (Total: 25) |
| | M 2:00pm - 3:15pm<br>W 2:00pm - 3:15pm | ANS 0402<br>ONLINE |

**HEBR313** **Conversation and Composition I**

*Prerequisite: HEBR212; or students who have taken courses with comparable content may contact the department.*

*A practical language course recommended for all students continuing with Hebrew. Review of grammar and composition. Selected readings. Oral and written exercises.*

| | | |
|---|---|---|
| 0101 | Aliza Sandalon | Seats (Total: 15) |
| | Class time/details on ELMs | ONLINE |

**HEBR369A** **Special Topics in Study Abroad III; Hebrew Lower Advanced**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**HEBR369C** **Special Topics in Study Abroad III; Hebrew Upper Advanced**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**HEBR369D** **Special Topics in Study Abroad III; Hebrew Upper Intermediate**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**HEBR386** **Experiential Learning**

(Perm req)

*Restriction: Must have a Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor; and junior standing or higher.*

Contact the department to obtain section numbers.

**Contact department for information to register for this course.**

**HEBR499** **Independent Study in Hebrew**

(Perm req)

*Independent study under faculty supervision.*

Contact the department to obtain section numbers.

**Contact department for information to register for this course.**

# HESI Higher Ed, Student Affairs, and International Ed Policy Fall 2024

**HESI310** **Transfer2Terp Learning Community: Applying Your Strengths at the University of Maryland and Beyond**

(Perm req)

*Restriction: Priority will be given to students transferring from Maryland Community Colleges; or permission of EDUC-Counseling, Higher Education and Special Education department.*

*Students will identify their strengths and learn how to apply them both in and outside of the classroom. Students will work side by side with the faculty and staff in the Adele H. Stamp Student Union to learn about their strengths while applying them to leadership positions.*

| | | |
|---|---|---|
| 0201 | Laura Widener | Seats (Total: 15) |
| | TuTh 11:00am - 12:15pm | EDU 2101 |

**HESI318K** **Applied Contextual Leadership; Peer Facilitation in the Fraternity and Sorority Community**

(Perm req)

*Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.*

Social norms are co-created by peers within a community and addressing cultural issues like power-based violence requires community trust, engagement, and commitment to change. Learners will engage with readings to develop a broad understanding of sexual assault on college campuses and within the Fraternity and Sorority community as well as theories of leadership and communication that provide context to be able to effectively facilitate group conversations by cultivating trust, creativity, and engagement.

| | | |
|---|---|---|
| 0101 | Swati Sah | Seats (Total: 20) |
| | Th 4:00pm - 7:00pm | JMZ 0208 |

**HESI318R** **Applied Contextual Leadership; Applied Contextual Leadership; Foundations and Applications of Challenge Course Theory and Instruction**

(Perm req)

*Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.*

Prerequisite: Permission of Instructor needed. Required course to become a Challenge C ourse facilitator with the RecWell Adventure Program. Contact Meghan Lou ghry at mloughry@umd.edu to schedule an interview. Restriction: Permission of department.

| | | |
|---|---|---|
| 0101 | Meghan Loughry | Seats (Total: 12) |
| | M 6:00pm - 9:00pm | ERC B0170E |

**HESI318T** **Applied Contextual Leadership; Foundations and Applications of Adventure Leadership Instruction**

(Perm req)

*Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.*

Permission of instructor needed. Required course to become an Adventure Trip Leader with the RecWell Adventure Program. Contact Amanda Preperato at aprep@umd.edu to schedule an interview.

| | | |
|---|---|---|
| 0101 | Meghan Loughry<br>Tu 6:00pm - 9:00pm | Seats (Total: 10)<br>ERC B0170E |

**HESI318Y** **Applied Contextual Leadership; PHA Recruitment Counselors**

(Perm req)

*Course will utilize experiential learning opportunities to develop and apply the knowledge and skills of leadership into specific contexts of leadership practice.*

| | | |
|---|---|---|
| 0101 | Bailey Loughlin<br>W 6:00pm - 9:00pm | Seats (Total: 85)<br>ASY 2309 |

**HESI423** **Leadership and Ethnicity**

*Credit only granted for: HESI418D or HESI423. Formerly: HESI418D.*

*Examines the concept of leadership from the standpoint of race, ethnicity, and culture. Specifically, we will explore the concept and differing meanings of leader and leadership within racial/ethnic communities in the United States. Issues of leaders and leadership will be examined as influenced by political, cultural, and historic events. The course will place particular emphasis on colleges and universities as a microcosm of the larger society and as a cultural site for exploring and assessing issues of race, ethnicity, diversity and leadership.*

| | | |
|---|---|---|
| 0101 | Brandon Dula<br>TuTh 2:00pm - 3:15pm | Seats (Total: 25)<br>JMZ 1117 |

**HESI424** **Leadership and the Jewish Community**

*Credit only granted for: HESI418F or HESI424. Formerly: HESI418F.*

*Offers students the opportunity to critically examine leadership and leadership identity development in relation to Jewish culture and identity. Explores how Jewish culture and ethnicity influence leadership styles and the role that leadership has played within Jewish history. Students will explore general leadership theories as well as personal leadership identity development in both an overall sense and as a member of the Jewish community. Examines leaders within the Jewish movement and how their leadership has influenced Jewish communities and explores issues facing the Jewish community both on college campuses and in the world and prepare student leaders to act as advocates for the Jewish community.*

| | | |
|---|---|---|
| 0101 | Ari Israel<br>M 2:00pm - 4:45pm | Seats (Total: 35)<br>MMH 1304 |

**HESI671** **Intergroup Dialogue Facilitation Practicum**

*Prerequisite: EDCP616 and HESI771; or permission of instructor. Restriction: Limited to HESI Student Affairs Concentration students only. Credit only granted for: EDCP671 or HESI671. Formerly: EDCP671.*

*Developing knowledge and skills for facilitating intergroup dialogues. Using the principles and content of intergroup dialogues to create scenarios for the practice of listening, understanding, and taking action under theories of social justice.*

| | | |
|---|---|---|
| 0101 | Kai Kai Mascarenas, Jazmin Pichardo<br>Th 1:00pm - 3:45pm | Seats (Total: 13)<br>ARC 1127 |

**HESI672** **Individual and Organizational Assessment in Student Affairs**

*Credit only granted for: EDCP672 or HESI672. Formerly: EDCP672.*

*An examination of the scholarship and practice of assessment of college student learning and developmental outcomes as well as organizational practices that contribute to those outcomes.*

| | | |
|---|---|---|
| 0101 | Kristan Skendall<br>Tu 4:30pm - 7:15pm | Seats (Total: 15)<br>EDU 3236 |

# HESP Hearing and Speech Sciences Fall 2024

**HESP120** **Introduction to Linguistics**

*Additional information: HESP120 is required for HESP majors. HESP majors may not substitute LING200.*

*An introduction to the scientific study of natural language with focus on the basic concepts of phonology, syntax, semantics and pragmatics, with subsequent attention to the applied aspects of linguistic principles.*

| | | |
|---|---|---|
| 0101 | Mairin Batten<br>TuTh 12:30pm - 1:45pm | Seats (Total: 45)<br>TWS 0236 |
| FC01 | Mairin Batten<br>TuTh 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 35)<br>ASY 3211 |

**HESP150** **Introduction to Language Science**

*Language science is the scientific study of how humans acquire, use, comprehend, and produce language. Most people in all societies learn and use their native language or languages with apparent ease - but don't be fooled: languages are highly complex, and speaking and understanding language requires some amazing feats of mental acrobatics. Thus there are many opportunities for difficulties with language, which is the focus of our field. Understanding difficulties with speech, language, and hearing require first understanding how processing works when language is successful - the psychological (behavioral) and neurobiological (brain) factors that enable people to learn and use language despite its intricacies, the structure and properties of language itself, and how knowledge of language is acquired, represented, and processed in the mind and brain.*

| | | |
|---|---|---|
| PBH1 | Manaar Zuhurudeen<br>Tu 6:30pm - 9:00pm | Seats (Total: 50)<br>ARC 1103 |
| | *Must be in the Hearing & Speech in the Evening (HESPIE) program. For permission to register contact HESPIE@umd.edu.* | |

**HESP202** **Introduction to Hearing and Speech Sciences**

*An introduction to communication sciences and disorders; a survey of the bases of normal speech, language and hearing ability, major forms of communicative disorders and their treatment.*

| | | |
|---|---|---|
| 0101 | Norah Aljunaidi, Christina Shields<br>TuTh 9:30am - 10:45am | Seats (Total: 100)<br>TWS 0310 |

**HESP214** **The Research Behind Headlines on Words, Thought, and Behavior**

*Cross-listed with: HNUH278A. Credit only granted for: HNUH278A or HESP214.*

*How does the human mind use language? Type "Language Science News" into your Google search bar. Among the more than 3 billion hits, headlines like "What is love? It depends what language you speak" and "Science's English dominance hinders diversity" invite you to think about the impact of words on thought and behavior. These are stories about how humans acquire and use language, but they ultimately address big questions about how we experience knowledge itself. In a world of unprecedented access to science journalism, did you ever read a headline about human behavior and wonder: How do we know? This class takes up the elegant ways cognitive scientists design experiments to answer crucial questions about language and thought, brain and behavior, that have no intuitive answers. Students will dive deep into the media coverage of their favorite claims about what we know, debate the psychological science behind these claims, and develop transferable critical-thinking skills in the process.*

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|---|---|---|
| 0101 | Jared Novick<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>TWS 0214 |
| FC02 | Kelley Gunther<br>TuTh 4:30pm - 5:45pm | Seats (Total: 22)<br>SQH 2120 |
| | *Restricted to students in Freshmen Connection.* | |

**HESP300** **Introduction to Psycholinguistics**

*Prerequisite: Minimum grade of C- in HESP202; or permission of BSOS-Hearing & Speech Sciences department. Recommended: HESP120.*

*An introduction to current theories of language and an investigation of their relationship to human communication behavior. Survey of the experimental literature relating to this question.*

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|---|---|---|
| 0101 | Yi Ting Huang<br>TuTh 2:00pm - 3:15pm | Seats (Total: 45)<br>TWS 0236 |

**HESP305** **Anatomy and Physiology of the Speech Mechanism**

(Perm req)

*Prerequisite: Minimum grade of C- in HESP202; or permission of BSOS-Hearing & Speech Sciences department.*

*Anatomy, physiology, and neurology of speech mechanism.*

| | | | |
|---|---|---|---|
| 0101 | Jennifer Myers | Seats (Total: 60) | |
| | TuTh 11:00am - 12:15pm | SQH 1120 | |

**HESP307** **Speech & Hearing Science**

*Prerequisite: HESP303.*

*Human hearing is exquisitely sensitive, allowing us to hear extremely faint sounds, to follow the sounds of a friend's voice in a loud party, and to appreciate subtle differences between words in the language. This course provides an introduction to the basic physics of sound, the acoustic properties of the sounds of speech, and the mechanisms by which those sounds are perceived by the listener.*

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|---|---|---|---|
| PDH1 | Kimberly Jenkins | Seats (Total: 25) | |
| | M 6:30pm - 9:00pm | ONLINE | |
| | Class time/details on ELMs | ONLINE | Discussion |
| | *Must be in the Hearing & Speech in the Evening (HESPIE) program, online. For permission to register contact HESPIE@umd.edu.* | | |

**HESP311** **Anatomy, Pathology and Physiology of the Auditory System**

*Prerequisite: Minimum grade of C- in HESP202; or permission of BSOS-Hearing & Speech Sciences department.*

*Gross anatomy of the ear and pathways for transmission of sound energy through the peripheral and central auditory system. Causes, development and effects of pathological conditions contributing to temporary or chronic hearing impairments.*

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|---|---|---|
| 0101 | Instructor: TBA | Seats (Total: 48) |
| | TuTh 3:30pm - 4:45pm | Location: TBA |

**HESP313** **Neurobiology for Speech and Hearing**

*This course is designed to provide an understanding of normal neuroanatomy and neurophysiology of speech and language. It will also provide preliminary information regarding pathologic processes, especially those affecting speech and language*

| | | | |
|---|---|---|---|
| PDH1 | Fernando Rengifo-Caicedo | Seats (Total: 25) | |
| | W 6:30pm - 8:10pm | ONLINE | |
| | *Must be in the Hearing & Speech in the Evening (HESPIE) program, online. For permission to register contact HESPIE@umd.edu.* | | |

**HESP386** **Experiential Learning**

(Perm req)

*Restriction: Junior standing or higher; and permission of BSOS-Hearing & Speech Sciences department.*

*Students will have the opportunity observe and/or participate in therapy activities provided by a speech-language pathologist or audiologist in this experiential learning course.*

**Contact department for information to register for this course.**

**HESP389** **LEAP Classroom Internship**

(Perm req)

*Participation in a language-based, literacy-rich preschool classroom for children with speech-language disorders. Students will learn behavior management techniques, curriculum planning and implementation, facilitation of play among children, data collection and teaching srategies.*

**Contact department for information to register for this course.**

**HESP396** **SIGNA Undergraduate Peer Mentor Clinical Practicum**

(Perm req)

*Prerequisite: HESP202. Recommended: Coursework in PSYC, EDUC, Human Development, Disability Studies. Restriction: Sophomore standing or higher; and permission by instructor .*

*Students are paired with neurodivergent UMD students to support mentoring in social communication and executive functioning skills. Peer mentors are selected based on a rigorous application process for fall and spring semesters. Selected peer mentors will engage in an orientation process which includes in depth information on neurodiversity and the intersectionality of DEI; attend a weekly lecture and group sessions to acquire up-to-date knowledge and application of knowledge with neurodiverse populations; and manage meetings with neurodivergent students one-to-one on a weekly basis to support carryover of social coaching and executive functioning strategies.*

| | | | |
|---|---|---|---|
| 0101 | Candace Nuzzo Michiels | Seats (Total: 10) | |
| | F 12:00pm - 12:50pm | LEF 1220 | |
| | F 2:30pm - 3:30pm | LEF 1220 | Discussion |

**HESP397** **SIGNA Undergraduate Peer Coach Clinical Practicum**

(Perm req)

*Prerequisite: HESP202. Recommended: Coursework in PSYC, EDUC, Human Development, Disability Studies, HESP396. Restriction: Junior standing or higher; and permission of instructor.*

*Students co-lead weekly groups for neurodivergent college students, coaching on topics and strategies pertaining to social communication and executive functioning skills. Peer coaches create outlines for weekly groups which are individualized by needs and interests. Peer coaches plan monthly social outings for SIGNA personnel to support generalization of executive functioning and social communication skills. Peer coaches are selected based on a rigorous application process for fall and spring semesters. Students who previously served in a peer mentor role in SIGNA are given priority consideration as peer coaches. Peer coaches will engage in an orientation process which includes in depth information on neurodiversity; attend weekly lectures to acquire up-to-date knowledge of neurodiverse populations; and attend group debrief meetings with the course instructor on a weekly basis to support implementation of social coaching and executive functioning feedback from groups.*

| | | |
|---|---|---|
| 0101 | Candace Nuzzo Michiels<br>F 3:45pm - 6:15pm | Seats (Total: 10)<br>LEF 1220 |

**HESP400** **Speech and Language Development in Children**

*Prerequisite: Minimum grade of C- in HESP300; or permission of BSOS-Hearing & Speech Sciences department. Recommended: LING200 or HESP120. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.*

*Analysis of the normal processes of speech and language development in children.*

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|---|---|---|
| 0101 | Allison Johnson, Samira Anderson<br>TuTh 12:30pm - 1:45pm | Seats (Total: 45)<br>LEF 2166 |
| PBH1 | Tonya Williams-Walker<br>Th 6:30pm - 9:00pm<br>*Must be in the Hearing & Speech in the Evening (HESPIE) program. For permission to register contact HESPIE@umd.edu.* | Seats (Total: 50)<br>ARC 1101 |

**HESP403** **Introduction to Phonetic Science**

*Prerequisite: Minimum grade of C- in HESP305; or permission of BSOS-Hearing & Speech Sciences department. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.*

*An introduction to physiological, acoustic and perceptual phonetics; broad and narrow phonetic transcription; current models of speech production and perception.*

| | | |
|---|---|---|
| 0101 | Samira Anderson, Allison Johnson<br>TuTh 2:00pm - 3:15pm | Seats (Total: 45)<br>LEF 2166 |

**HESP411** **Introduction to Audiology**

*Prerequisite: Minimum grade of C- in HESP311; or permission of BSOS-Hearing & Speech Sciences department. Restriction: Must be in Hearing and Speech Sciences program; or permission of BSOS-Hearing & Speech Sciences department.*

*An introduction to the field of audiology. Evaluation and remediation of hearing handicaps.*

| | | |
|---|---|---|
| 0101 | Sarah Sohns<br>TuTh 3:30pm - 4:45pm | Seats (Total: 50)<br>VMH 1207 |
| PBH1 | Christopher Zalewski<br>M 6:00pm - 8:30pm | Seats (Total: 25)<br>KNI 1206 |
| | *Must be in the Hearing & Speech in the Evening (HESPIE) program. For permission to register contact HESPIE@umd.edu.* | |

**HESP413** **Aural Rehabilitation/Habilitation**

*Prerequisite: HESP411. Restriction: Sophomore standing or higher.*

*The fundamental aspects of aural rehabilitation therapy for both adults and children are introduced to students. Class time will consist of lectures, discussions, and hands-on activities.*

| | | |
|---|---|---|
| PBH1 | Monica Allgauer<br>W 6:00pm - 8:30pm | Seats (Total: 25)<br>ASY 3215 |
| | *Must be in the Hearing & Speech in the Evening (HESPIE) program. For permission to register contact HESPIE@umd.edu.* | |

**HESP415** **Principles and Methods in Speech-Language Pathology**

*Prerequisite: HESP400. Restriction: Must be in Hearing and Speech Sciences program.*

*The principles and methods required to provide treatment of speech and language disorders to children and adults. Topics include writing goals and objectives, programming,teaching strategies,session design, data collection, behavior modification and counseling.*

| | | |
|---|---|---|
| 0101 | Jessica Wertz<br>W 1:00pm - 2:45pm | Seats (Total: 40)<br>SQH 1101 |

**HESP416** **Principles and Methods in Audiology**

(Perm req)

*Prerequisite: Minimum grade of C- in HESP411. Restriction: Must be in Hearing and Speech Sciences program; and permission of BSOS-Hearing & Speech Sciences department.*

*Relate previous knowledge of anatomy/physiology and pathologies of the auditory system and integrate this information into clinical application.*

| | | |
|---|---|---|
| 0101 | Lisa Rickard<br>W 3:30pm - 5:15pm | Seats (Total: 25)<br>LEF 0135 |

**HESP420** **Deaf Culture and ASL for the CSD Professional**

*Prerequisite: HESP202 and EDSP220. Credit only granted for: HESP498A or HESP420. Formerly: HESP498A.*

*Studying Deaf Culture and American Sign Language (ASL) is crucial in enhancing the culturally competent practice of allied health/Communication Sciences and Disorders (CSD) professionals. This course explores the politics of (dis)ability through the lens of the experience of d/Deafness and the emergence of the Deaf community as a linguistic and cultural group in the United States, as well as issues that impact the provision of services to this population.*

| | | |
|---|---|---|
| 0101 | Lacey Curry | Seats (Total: 40) |
| | MW 2:00pm - 3:15pm | TWS 0201 |

**HESP422** **Neurological Bases of Human Communication**

*Prerequisite: HESP305; or permission of instructor. Credit only granted for: HESP498 or HESP422.*

*Basic neurology as it pertains to anatomy and physiology substrates of speech and language.*

| | | |
|---|---|---|
| 0101 | Kristin Slawson | Seats (Total: 40) |
| | TuTh 9:30am - 10:45am | SQH 1101 |

**HESP468H** **Professional Development in Research and Academia; Honors Seminar: Professional Development**

*The purpose of this seminar is to complement your honors project with practical advice on how to navigate successful careers in research and academia. As you progress through your undergraduate years (especially if you work in a lab), you will likely make several unofficial observations about life as a graduate student, postdoc, or professor, and overhear conversations that include new terminology that may be confusing (e.g., research mentorship, grants, conference abstract, tenure). This can create a mysterious aura around what it is like to obtain your PhD and work in academia generally. In this class, we will cover tips and skills that are often passed along informally in the lab; but here, we will discuss these issues overtly from a range of perspectives, experiences, and best practices.*

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|---|---|---|
| 0101 | Jared Novick, Matthew Goupell | Seats (Total: 10) |
| | F 1:00pm - 1:50pm | LEF 0104 |

**HESP469** **Honor Thesis Research**

*Student will develop thesis proposal, conduct research, analyze results, develop and defend final written document.*

**Contact department for information to register for this course.**

**HESP469A** **Honor Thesis Research**

*Student will develop thesis proposal, conduct research, analyze results, develop and defend final written document.*

**Contact department for information to register for this course.**

**HESP469B** **Honor Thesis Research**

*Student will develop thesis proposal, conduct research, analyze results, develop and defend final written document.*

**Contact department for information to register for this course.**

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**HESP489** **Undergraduate Research Experience**

(Perm req)

*Undergraduate research experience working under HESP faculty or outside affiliates.*

Prerequisite: HESP202. Restriction: Permission of BSOS-Hearing & Speech Sciences department; and sophomore standing or higher. Repeatable to 6 credits. Formerly: HESP388. Undergraduate research experience working under HESP faculty or outside affiliates.

**Contact department for information to register for this course.**

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**HESP498** **Seminar**

*Selected topics in human communication and its disorders.*

**Contact department for information to register for this course.**

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**HESP499** **Independent Study; Topics in the Hearing and Speech Sciences**

(Perm req)

*A directed study of selected topics pertaining to human communication and its disorders.*

**Contact department for information to register for this course.**

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**HESP499H** **Independent Study**

*A directed study of selected topics pertaining to human communication and its disorders.*

**Contact department for information to register for this course.**

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**HESP601** **Foundations of Scientific Inquiry**

*Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; or permission of Instructor. Additional information: Course meets over three semesters for the duration of the Masters of Speech-Language Pathology program.*

*Overview of methods of empirical research used in Communication Sciences and Disorders. The course will focus on identifying, critically analyzing, and writing about empirical research.*

| | | |
|---|---|---|
| 0101 | Instructor: TBA | Seats (Total: 1) |
| | Class time/details on ELMs | ONLINE |

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**HESP606** **Basic Hearing Measurements**

(Perm req)

*Prerequisite: HESP411; or students who have taken courses with comparable content may contact the department. Restriction: Must be in Clinical Audiology: Au.D. or Ph.D. (Doctoral) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.*

*Theoretical principles, methodology, and interpretation of routine audiometric tests, including pure tone, speech, and acoustic immittance measures. Modification of procedures for special populations. Equipment calibration and mass hearing screening programs.*

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|---|---|---|
| 0101 | Kimberly Jenkins | Seats (Total: 9) |
| | Tu 4:30pm - 7:00pm | SQH 1123 |

**HESP610** **Language Disorders in Adults**

*Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; or permission of instructor.*

*Etiology, diagnosis and management of language problems of adults associated with aging, brain injury and degenerative conditions.*

| | | |
|---|---|---|
| 0101 | Yasmeen Shah | Seats (Total: 30) |
| | **Meets October 16, 2024 - December 9, 2024** | |
| | Th 9:00am - 12:35pm | LEF 0135 |

**HESP613** **Autism Spectrum Disorders**

*Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; or permission of instructor. Credit only granted for: HESP639A or HESP613. Formerly: HESP639A.*

*Etiology, diagnosis and management of autism spectrum disorders.*

| | | |
|---|---|---|
| 0101 | Jonet Artis | Seats (Total: 31) |
| | **Meets October 16, 2024 - December 9, 2024** | |
| | Tu 9:30am - 12:50pm | LEF 0135 |

**HESP616** **Language Disorders in the Pre-school Age**

(Perm req)

*Prerequisite: HESP400; or students who have taken courses with comparable content may contact the department. Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.*

*Theoretical, empirical and clinical perspectives on language disorders in children from infancy through pre-school age.*

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|---|---|---|
| 0101 | Nan Ratner | Seats (Total: 30) |
| | **Meets August 26, 2024 - October 14, 2024** | |
| | Tu 9:30am - 1:05pm | LEF 0135 |

**HESP623** **Education, Policy & Advocacy in Bilingual Service Delivery**

*Bilingual education and associated policy issues in the US as they relate to the field of speech-language pathology. Topics include bilingual education models, disproportionality, and the legal framework related to bilingual service delivery in education settings.*

| | | |
|---|---|---|
| PWH1 | C'Rai Weeden Shannon | Seats (Total: 30) |
| | Th 6:30pm - 9:00pm | ONLINE |
| | *Must be in the Bilingual Speech-Language Pathology for Practitioners, Online. Golden ID students are not eligible for this section.* | |

**HESP624** **Voice Disorders**

(Perm req)

*Restriction: Permission of BSOS-Hearing & Speech Sciences department; or must be in Hearing and Speech Sciences: M.A. (Master's) program.*

*Etiological characteristics, assessment and treatment of phonatory disorders in children and adults.*

| | | |
|---|---|---|
| 0101 | Nancy Solomon | Seats (Total: 30) |
| | **Meets October 14, 2024 - December 9, 2024** | |
| | Tu 6:45pm - 9:00pm | LEF 0135 |
| | Class time/details on ELMs | ONLINE |

**HESP626** **Language disorders in school-aged children and adolescents**

*Etiology, assessment and treatment of communication and learning problems in school age children and adolescents*

| | | |
|---|---|---|
| 0101 | Nan Ratner | Seats (Total: 30) |
| | **Meets August 26, 2024 - October 12, 2024** | |
| | Tu 4:15pm - 7:35pm | LEF 0135 |

**HESP630** **Electrophysiological Measurements**

(Perm req)

*Prerequisite: HESP606. Restriction: Must be in Clinical Audiology: Au.D. or Ph.D. (Doctoral) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.*

*Principles and techniques of physiological and electrophysiological measures of the audio-vestibular mechanisms.*

Offered fall only.

| | | |
|---|---|---|
| 0101 | Samira Anderson<br>Th 9:00am - 11:30am | Seats (Total: 15)<br>ARC 1127 |

**HESP638** **Research Practicum**

(Perm req)

*Analysis, synthesis and integration of knowledge related to current research or clinical issues in human communication and its related disorders.*

**Contact department for information to register for this course.**

**HESP639B** **Special Topics in Hearing and Speech Sciences; Introduction to Signal Processing in the Auditory and Communication Sciences**

(Perm req)

*Intensive coverage of selected topics of current interest.*

| | | |
|---|---|---|
| 0101 | Paul Mayo<br>Tu 11:00am - 12:50pm | Seats (Total: 10)<br>Location: TBA |

**HESP639D** **Special Topics in Hearing and Speech Sciences; Advanced Dysphagia**

*Intensive coverage of selected topics of current interest.*

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|---|---|---|
| 0101 | Ed Bice<br>M 5:00pm - 6:40pm | Seats (Total: 30)<br>ONLINE |

**HESP645** **Pediatric Audiology**

(Perm req)

*Prerequisite: HESP606. Restriction: Must be in Clinical Audiology: Au.D. or Ph.D. (Doctoral) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.*

*Evaluation and treatement of hearing-impaired children.*

Offered Fall only.

| | | |
|---|---|---|
| 0101 | Stacey Kane<br>M 6:00pm - 8:30pm | Seats (Total: 15)<br>SQH 1125 |

**HESP648A** **Clinical Practice in Speech: Diagnostic Procedures**

(Perm req)

*Restriction: Permission of instructor.*

*Supervised training in the application of clinical methods in the diagnosis of speech disorders.*

| | | | |
|---|---|---|---|
| 2101 | Jessica Wertz<br>Contact instructor or department for details. | Seats (Total: 5) | |
| 2301 | Eliza Thompson<br>F 9:00am - 11:50am | Seats (Total: 5)<br>Location: TBA | <br>Lab |
| 2801 | Eusebia Mont<br>F 9:00am - 11:50am | Seats (Total: 5)<br>LEF 0135 | <br>Lab |
| 3401 | Ashley Webb<br>F 9:00am - 11:50am | Seats (Total: 5)<br>LEF 0135 | <br>Lab |
| 3601 | Kristin Slawson<br>F 9:00am - 11:50am | Seats (Total: 5)<br>LEF 0135 | <br>Lab |
| 3701 | Kathryn Dow-Burger<br>F 9:00am - 11:50am | Seats (Total: 5)<br>LEF 0135 | <br>Lab |

**HESP648B** **Clinical Practice in Speech: Therapeutic Procedures**

(Perm req)

*Prerequisite: HESP648A. Restriction: Permission of instructor. Repeatable to 6 credits.*

*Supervised training in the application of clinical methods in the treatment of speech disorders.*

| | | | |
|---|---|---|---|
| 2101 | Jessica Wertz<br>Th 1:00pm - 1:50pm<br>W 1:00pm - 2:30pm | Seats (Total: 5)<br>LEF 0135<br>Location: TBA | <br>Lab<br>Lab |
| 2301 | Eliza Thompson<br>Th 1:00pm - 1:50pm | Seats (Total: 5)<br>LEF 0135 | <br>Lab |
| 2801 | Eusebia Mont<br>Th 1:00pm - 1:50pm | Seats (Total: 5)<br>LEF 0135 | <br>Lab |
| 3301 | Courtney Overton<br>Th 1:00pm - 1:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 5)<br>LEF 0135<br>Location: TBA | <br>Lab<br>Lab |
| 3401 | Ashley Webb<br>Th 1:00pm - 1:50pm | Seats (Total: 5)<br>LEF 0135 | <br>Lab |

| | | | |
|---|---|---|---|
| 3701 | Kathryn Dow-Burger<br>Th 1:00pm - 1:50pm | Seats (Total: 5)<br>LEF 0135 | Lab |

**HESP649A** **Clinical Practice in Audiology: Diagnostic Procedures**

*Restriction: Permission of instructor. Repeatable to 6 credits.*

*Supervised training in the application of clinical methods in the diagnosis of hearing disorders.*

| | | |
|---|---|---|
| 1101 | Lacey Curry<br>W 9:00am - 10:50am | Seats (Total: 5)<br>LEF 0135 |
| 1501 | Lisa Rickard<br>W 9:00am - 10:50am | Seats (Total: 5)<br>LEF 0135 |
| 2401 | Christina Shields<br>W 10:00am - 11:50am | Seats (Total: 5)<br>ONLINE |
| 3201 | Nicole Nguyen<br>Contact instructor or department for details. | Seats (Total: 5) |
| 3501 | Sarah Sohns<br>W 9:00am - 10:50am | Seats (Total: 5)<br>LEF 0135 |

**HESP649B** **Clinical Practice in Audiology - Aural Rehabilitation**

(Perm req)

*Prerequisite: HESP649A.*

*A clinical practicum course with individualized instruction, which focuses on the skills necessary to provide intervention and counseling for a wide range of disorders of the auditory system in patients of varying ages and cultural backgrounds. Each student will be various activities across three semesters (Spring YR2, Summer YR2, and Fall YR3). Students may work individually or in pairs to provide hearing loss intervention, auditory training, hearing loss prevention education, and communication strategy training. The student is expected to prepare for each session with a complete clinical plan, educational materials, and counseling strategies. Students must meet with the Audiologist prior to the aural rehabilitation (AR) session to discuss the plan of care. During the visit, the student will perform hearing loss handicap assessments, lead counseling sessions regarding rehabilitative options, make modifications to existing treatment plans/hearing aids, and educate the patient about their hearing. Following the visit, the student will document the encounter according to clinical protocol and ethical standards using the electronic medical records system. All patient-related information will be handled within a secure computer environment which meets HIPAA regulations for protected health information.*

**Contact department for information to register for this course.**

**HESP700** **Hearing Aids**

*Principles, methods and procedures for selection, fitting, calibration and management of amplification systems for hearing-impaired children and adults.*

| | | |
|---|---|---|
| 0101 | Eric Hoover | Seats (Total: 10) |
| | W 3:30pm - 6:00pm | LEF 1222 |

**HESP702** **Diagnostic Procedures in Speech-Language Pathology**

(Perm req)

*Restriction: Must be in Hearing and Speech Sciences: M.A. (Master's) program; and permission of BSOS-Hearing & Speech Sciences department. Or permission of instructor.*

*Diagnostic tools and methods in the analysis of speech-language disorders in children and adults.*

| | | |
|---|---|---|
| 0101 | Eliza Thompson | Seats (Total: 30) |
| | **Meets August 26, 2024 - October 15, 2024** | |
| | Th 9:00am - 12:35pm | LEF 0135 |

**HESP708** **Independent Study**

(Perm req)

*Individual research projects under guidance of a faculty member.*

**Contact department for information to register for this course.**

**HESP710** **Industrial and Environmental Noise Problems**

(Perm req)

*Restriction: Permission of instructor.*

*Evaluation and control of noise hazards. Effects of noise on man. Medico-legal aspects of noise-induced hearing impairment.*

| | | |
|---|---|---|
| 0101 | Eric Hoover | Seats (Total: 20) |
| | M 9:30am - 12:00pm<br>Contact instructor or department for details. | LEF 1222 |

**HESP712** **Cochlear Implants and Other Implantable Technologies**

*Prerequisite: Must have completed or be concurrently enrolled in HESP700, HESP701, and HESP722; or permission of instructor.*

*Comprehensive presentation of cochlear implant design and processing, medical/surgical aspects, evaluation, programming, outcomes in children and adults, and post stimulation care. The role of the audiologist as a member of the cochlear implant team will be emphasized. Current and emerging trends in other implantable technologies also will be covered.*

| | | | |
|---|---|---|---|
| 0101 | Nicole Nguyen, Matthew Goupell<br>M 2:30pm - 5:00pm | Seats (Total: 12)<br>LEF 0104A | |

**HESP722** **Psychoacoustics**

*Auditory perception and auditory processing in normal and impaired hearing.*

| | | | |
|---|---|---|---|
| 0101 | Matthew Goupell<br>Th 3:30pm - 6:00pm | Seats (Total: 15)<br>LEF 1222 | |

**HESP728** **Advanced Clinical Practice in Speech; Advanced Graduate Laboratory Practicum in Speech-Language Pathology**

(Perm req)

*Clinical internship in selected off-campus facilities.*

**Contact department for information to register for this course.**

**HESP729** **Advanced Clinical Practice in Audiology; Advanced Graduate Laboratory Practicum in Audiology**

(Perm req)

*Clinical internship in selected off-campus facilities.*

| | | | |
|---|---|---|---|
| 1301 | Nicole Nguyen<br>Contact instructor or department for details.<br>Contact instructor or department for details. | Seats (Total: 20) | |
| 3201 | Nicole Nguyen<br>Contact instructor or department for details. | Seats (Total: 20) | |

**HESP732** **Hearing Aids Lab**

*Corequisite: HESP700.*

*Laboratory experience covering clinical procedures of concepts addressed in concurrent academic course, Hearing Aids 1 (HESP700). This laboratory is 1-credit and graded separately from HESP700. Students will be given the opportunity for hands-on practice in the use of amplification devices for the treatment of hearing impairment. As the first lab in the course series, students will be able to describe and apply current best practices required for amplification-based aural (re)habilitation for patients across the lifespan including those that may differ from them in race, ethnicity, gender identity, sexual orientation, and socioeconomic background.*

| | | | |
|---|---|---|---|
| 0101 | Sarah Sohns<br>W 2:00pm - 2:50pm | Seats (Total: 15)<br>LEF 0135 | Lab |

**HESP734** **Basic Hearing Measurement Laboratory**

*Prerequisite: HESP416. Corequisite: HESP606.*

*Supplemental lab experience that coincides with HESP606: Basic Hearing Measurement. Students will complete hands-on learning activities to reinforce theoretical concepts from the didactic learning in HESP606. The goal of this lab is to facilitate the transfer of learning from the classroom to clinical practicum.*

| | | | |
|---|---|---|---|
| 0101 | Nicole Nguyen, Christina Shields | Seats (Total: 25) | |
| | F 1:00pm - 2:30pm | LEF 0135 | |

**HESP736 Electrophysiological Measurements Lab**

*Prerequisite: HESP606. Corequisite: HESP630.*

*This course is a supplemental lab experience that coincides with HESP630: Electrophysiological Measurements. Students will complete hands-on learning activities to reinforce theoretical concepts from the didactic learning in HESP630. The goal of this lab is to facilitate the transfer of learning from the classroom to clinical practicum.*

| | | | |
|---|---|---|---|
| 0101 | Kendell Adson | Seats (Total: 15) | |
| | M 1:00pm - 1:50pm | LEF 1221 | Lab |
| | Contact instructor or department for details. | | |

**HESP788 Graduate Research Externship**

*Off-campus research internship with departmental affiliates at National Institutes of Health and other regional universities. Contact department chairman for available placements, requirements and openings.*

**Contact department for information to register for this course.**

**HESP799 Master's Thesis Research**
**Contact department for information to register for this course.**

**HESP829 Clinical Internship Residency**

*Off-Campus, full-time (30-40 hours/week) clinical externship in Audiology at regional and national institutions.*

| | | |
|---|---|---|
| 1301 | Nicole Nguyen | Seats (Total: 5) |
| | Contact instructor or department for details. | |
| 3201 | Nicole Nguyen | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**HESP849 Capstone Research Project I**

*First of two-course sequence leading to the final research requirement for the Doctor of Audiology (Au.D.) degree; involves individual study and/or supervised lab work with mentor, preparation of research proposal (including IRB protocol if required), and attendance at Capstone Research Project Workshop.*

**Contact department for information to register for this course.**

**HESP859** **Capstone Research Project II**

*Second of two-course sequence leading to the final research requirement for the Doctor of Audiology (Au.D.) degree; involves final data collection, analysis and presentation of results or completion of scholarly paper under the direction of the faculty mentor.*

**Contact department for information to register for this course.**

**HESP898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**HESP899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# HGLO Honors Global Communities Fall 2024

**HGLO100** **The Student in the University: Global Communities**

*Restriction: Must be enrolled in Honors Global Communities Living-Learning Program. Credit only granted for: BSGC100 or HGLO100. Formerly: BSGC100.*

*Students will develop a sense of community within the program, become familiar with campus resources, gain skills and information to prepare for the Global Experience Semester, and explore the surrounding international community.*

| | | |
|---|---|---|
| 0101 | Alfredo Oliveira<br>Tu 9:30am - 10:45am | Seats (Total: 22)<br>DOR 0134 |
| 0102 | Natalie Vinski Ibrahim<br>Tu 11:00am - 12:15pm | Seats (Total: 22)<br>DOR 0134 |
| 0103 | Natalie Vinski Ibrahim<br>Tu 2:00pm - 3:15pm | Seats (Total: 22)<br>DOR 0134 |
| 0104 | Alfredo Oliveira<br>Tu 12:30pm - 1:45pm | Seats (Total: 22)<br>DOR 0134 |

**HGLO101** **Saving the World With Data**

*Restriction: Must be in Honors Global Communities Living-Learning program. Credit only granted for: HGLO101 or BSGC101. Formerly: BSGC101.*

*The world is grappling with many intractable issues, like climate change, pandemics, democratic backsliding, and inequality. How can we use data analysis to help us better understand and work to solve these problems? In this class students will engage with a wide range of issues affecting the entire globe. In addition, they will also gain valuable data science skills by learning the basics of coding in R. No previous programing experience is required.*

| | | | |
|---|---|---|---|
| 0101 | Sarah Croco<br>MW 12:00pm - 12:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 22)<br>TYD 0130<br>DOR 0134 | Discussion |
| 0102 | Sarah Croco<br>MW 12:00pm - 12:50pm<br>F 10:00am - 10:50am | Seats (Total: 22)<br>TYD 0130<br>DOR 0134 | Discussion |
| 0103 | Sarah Croco<br>MW 12:00pm - 12:50pm<br>F 11:00am - 11:50am | Seats (Total: 22)<br>TYD 0130<br>DOR 0134 | Discussion |
| 0104 | Sarah Croco<br>MW 12:00pm - 12:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 22)<br>TYD 0130<br>DOR 0134 | Discussion |

**HGLO208** **Using Data to Answer Hard Questions**

*In this class, students will learn more advanced data science techniques and gain an understanding of hypothesis formation and general research design.*

Restriction: Must be in Honors Global Communities Living-Learning program.

| | | | |
|---|---|---|---|
| 0101 | Sarah Croco<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 30)<br>TYD 1132<br>TYD 1132 | Discussion |

# HHUM Honors Humanities Fall 2024

**HHUM105** **Honors Humanities: Introduction to the Arts and Humanities**

*Restriction: Must be an entering freshmen in the Honors Humanities Program. Credit only granted for: ARHU105 or HHUM105. Formerly: ARHU105.*

*Introduction to the university, the different fields of the arts and humanities, and the history of how the university and the humanities have evolved across the world from ancient times to the present. Primary emphasis on reading and discussion of literary artifacts to assess the meaning and social status of the arts and humanities in the past and their personal and social value for the future.*

| | | | |
|---|---|---|---|
| 0101 | Randy Ontiveros<br>MW 1:00pm - 1:50pm<br>F 9:00am - 9:50am | Seats (Total: 17)<br>ESJ 1215<br>ANA 0120 | Discussion |

| | | | |
|---|---|---|---|
| 0102 | Randy Ontiveros<br>MW 1:00pm - 1:50pm<br>F 10:00am - 10:50am | Seats (Total: 17)<br>ESJ 1215<br>ANA 0120 | Discussion |
| 0103 | Randy Ontiveros<br>MW 1:00pm - 1:50pm<br>F 11:00am - 11:50am | Seats (Total: 17)<br>ESJ 1215<br>ANA 0120 | Discussion |
| 0104 | Randy Ontiveros<br>MW 1:00pm - 1:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 17)<br>ESJ 1215<br>ANA 0120 | Discussion |

**HHUM205** **Second Year Seminar in Honors Humanities**

*Credit only granted for: ARHU205 or HHUM205. Formerly: ARHU205.*

*Seminar on basic issues and methodologies in the humanities and arts.*

| | | |
|---|---|---|
| 0101 | Kathleen Spanos<br>Tu 3:30pm - 4:45pm<br>Th 3:30pm - 4:45pm<br>*Dancing in the World.* | Seats (Total: 16)<br>ANA 0120<br>PKT 2101 |
| 0102 | Oludolapo Demuren<br>TuTh 12:30pm - 1:45pm<br>*Why We Create and Share Stories, Poems and Zines.* | Seats (Total: 16)<br>ANA 0120 |
| 0103 | Aneta Georgievska-Shine<br>Tu 2:00pm - 4:30pm<br>*Rediscovering the Body and Soul in the Renaissance* | Seats (Total: 16)<br>ASY 3217 |
| 0104 | Mark Forrester<br>TuTh 11:00am - 12:15pm<br>*How Haiku Conquered the World.* | Seats (Total: 16)<br>ANA 0120 |

**HHUM328** **Internship in Honors Humanities**

*Supervised service-learning in Honors Humanities.*

| | | |
|---|---|---|
| 0101 | Sarah Humud<br>Class time/details on ELMs | Seats (Total: 12)<br>ONLINE |

| | | | |
|---|---|---|---|
| 0102 | Sarah Humud<br>Class time/details on ELMs | Seats (Total: 12)<br>ONLINE | |
| 0103 | Sarah Humud<br>Class time/details on ELMs | Seats (Total: 12)<br>ONLINE | |

**HHUM329** **Undergraduate Teaching Assistantship**

*Supervised pedagogical service-learning in the Honors Humanities curriculum.*

| | | | |
|---|---|---|---|
| 0101 | Randy Ontiveros<br>Class time/details on ELMs | Seats (Total: 8)<br>ONLINE | |

# HISP Historic Preservation Fall 2024

**HISP200** **The Everyday and the American Environment**

*Jointly offered with HISP615.*

*An introduction to the theories of the everyday within the context of the American built environment. Focuses primarily on the American experience of underrepresented, minority, and/or immigrant communities; both historical and contemporary. Attempts to challenge what is meant by American in describing the American everyday built environment.*

| | | | |
|---|---|---|---|
| 0101 | Stefan Woehlke<br>Th 3:30pm - 4:45pm<br>F 1:00pm - 2:15pm | Seats (Total: 19)<br>ASY 2309<br>JMZ 2120 | <br><br>Discussion |
| 0102 | Stefan Woehlke<br>Th 3:30pm - 4:45pm<br>F 1:00pm - 2:15pm | Seats (Total: 24)<br>ASY 2309<br>LEF 1220 | <br><br>Discussion |
| 0103 | Stefan Woehlke<br>Th 3:30pm - 4:45pm<br>F 2:00pm - 3:15pm | Seats (Total: 24)<br>ASY 2309<br>ASY 3215 | <br><br>Discussion |
| 0104 | Stefan Woehlke<br>Th 3:30pm - 4:45pm<br>F 2:00pm - 3:15pm | Seats (Total: 24)<br>ASY 2309<br>ASY 3219 | <br><br>Discussion |
| 0105 | Stefan Woehlke<br>Th 3:30pm - 4:45pm<br>F 2:00pm - 3:15pm | Seats (Total: 19)<br>ASY 2309<br>ASY 3221 | <br><br>Discussion |

**HISP319P** **Special Topics in Historic Preservation; Excavating Local Heritage: An Archaeology and Preservation Field School**

(Perm req)

*Students will explore technical aspects of preservation taught by practitioners whose expertise are of special benefit to undergraduate students.*

Course meets at dig location, with occasional lab times as determined by instructor. For further information, please contact instructor at swoehlke@umd.edu

| | | |
|---|---|---|
| 0101 | Stefan Woehlke<br>F 9:00am - 4:00pm | Seats (Total: 20)<br>Location: TBA |

**HISP600** **History, Theory, and Practice of Historic Preservation**

(Perm req)

*Prerequisite: Permission of ARCH-Historic Preservation Program.*

*An introduction to history, theory and practice of historic preservation covered through readings, discussions, presentations, class projects, and field trips.*

| | | |
|---|---|---|
| 0101 | Susan Kern<br>Th 7:00pm - 9:40pm | Seats (Total: 20)<br>ARC 1127 |

**HISP611** **Historical Research Methods**

(Perm req)

*Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP610 or HISP611.*

*Research methods used by professional historic preservationists to identify and record historic structures and sites. Emphasizes inter/multidisciplinary nature of contemporary preservation practice using archival and ethnographic evidence as a basis for establishing significance.*

Department permission required.

| | | |
|---|---|---|
| 0101 | John Sprinkle<br>W 7:00pm - 9:40pm | Seats (Total: 15)<br>ARC 1125 |

**HISP619P** **Special Topics in Historic Preservation; Excavating Local Heritage: An Archaeology and Preservation Field School**

(Perm req)

*Technical aspects of preservation taught by practitioners whose expertise are of special benefit to certificate students.*

Course meets at dig location, with occasional lab times as determined by instructor. For further information, please contact instructor at swoehlke@umd.edu

| | | |
|---|---|---|
| 0101 | Stefan Woehlke<br>F 9:00am - 4:00pm | Seats (Total: 10)<br>Location: TBA |

**HISP629** **Independent Studies in Historic Preservation**

*Individual Instruction course.*

| | | |
|---|---|---|
| 0101 | Susan Kern<br>TBA | Seats (Total: 1)<br>ARC 1117 |

**HISP650** **Historic Preservation Studio Workshop**

(Perm req)

*Prerequisite: HISP600; and permission of ARCH-Historic Preservation Program. Restriction: Must be in a major in ARCH-Historic Preservation Program.*

*Students carry out a group preservation project in a local community, from inception and problem formulation through completion. Guided carefully by a faculty team, students will conduct research, interact with communities, perform analyses, and propose solutions for an issue or problem of direct relevance to a local community and client group.*

Department permission required.

| | | |
|---|---|---|
| 0101 | Susan Kern<br>TuTh 4:00pm - 6:40pm | Seats (Total: 15)<br>ARC 1117 |

**HISP655** **American Vernacular Architecture**

(Perm req)

*Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP655 or HISP619V. Formerly: HISP619V.*

*History, theory, and practice of American vernacular architecture including a review of common building technologies, structure, and style, and focusing on methods and approaches for recording, documenting and analyzing these historic resources.*

Prerequisite: permission of department. Class will meet some sessions at Bostwick House.

| | | |
|---|---|---|
| 0101 | Susan Kern<br>Tu 7:00pm - 9:40pm<br>Contact instructor or department for details. | Seats (Total: 15)<br>ARC 1117 |

**HISP660** **Internship in Historic Preservation**

(Perm req)

*Prerequisite: Permission of ARCH-Historic Preservation Program. Formerly: HISP619.*

*Students will secure a summer internship with an organization engaged in historic preservation work (this can be a public agency, nonprofit, or private firm). The students will formulate a plan of work and a series of pedagogical goals to satisfy both the practical needs of the project and the academic requirements for the course.*

| | | |
|---|---|---|
| 0101 | Susan Kern | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**HISP680** **Preservation Economics**

(Perm req)

*Prerequisite: Permission of ARCH-Historic Preservation Program. Credit only granted for: HISP619N or HISP680. Formerly: HISP619N.*

*Students are introduced to a range of economic theories, methods, and issues that must be considered in the practice of historic preservation. Case studies related to community economic development, adaptive reuse, tax credit programs, project finance, and land use will be presented.*

| | | |
|---|---|---|
| 0101 | Cristina Amoruso | Seats (Total: 15) |
| | M 7:00pm - 9:40pm | ARC 1117 |

**HISP701** **Certificate Portfolio Project**

(Perm req)

*Prerequisite: Permission of ARCH-Historic Preservation Program.*

*Students will gather samples of their work and craft a synthetic statement on their experiences in their HISP certificate courses (for example, picking up on themes such as community involvement, diversity of practice, affordable housing, or sustainability), and the ways in which they have integrated historic preservation into their thinking and practice in their home discipline.*

Department permission required.

| | | |
|---|---|---|
| 0101 | Susan Kern | Seats (Total: 10) |
| | TBA | ARC 1117 |

**HISP710** **Final Project in Historic Preservation I**

(Perm req)

*Credit only granted for: HISP700 or HISP710. Formerly: HISP700.*

*An independent, applied research project investigating the preservation of a particular site or a specialized issue in historic preservation. This is part one of a two-semester sequence and involves developing the project proposal and bibliography.*

Department permission required.

| | | | |
|---|---|---|---|
| 0101 | Susan Kern<br>W 7:00pm - 9:40pm | Seats (Total: 10)<br>ARC 1117 | |

**HISP711** **Final Project in Historic Preservation II**

(Perm req)

*Credit only granted for: HISP700 or HISP711. Formerly: HISP700.*

*An independent, applied research project invesitgating the preservation of a particular site or a specialized issue in historic preservation. This is part two of a two semester sequence and involves project research and writing.*

Department permission required.

| | | | |
|---|---|---|---|
| 0101 | Susan Kern<br>TBA | Seats (Total: 10)<br>ARC 1117 | |

# HIST History Fall 2024

**HIST106** **American Jewish Experience**

*Cross-listed with: JWST141. Credit only granted for: HIST106 or JWST141.*

*History of the Jews in America from Colonial times to the present. Emphasis on the waves of migration from Germany and Eastern Europe; the changing nature of the American Jewish community and its participation in American social, economic, and political life.*

| | | | |
|---|---|---|---|
| 0101 | Marsha Rozenblit<br>TuTh 2:00pm - 3:15pm | Seats (Total: 40)<br>KEY 0126 | |

**HIST110** **The Ancient World**

*Interpretation of select literature and art of the ancient Mediterranean world with a view to illuminating the antecedents of modern culture; religion and myth in the ancient Near East; Greek philosophical, scientific, and literary invention; and the Roman tradition in politics and administration.*

| | | | |
|---|---|---|---|
| 0101 | Jeremy Simmons<br>MW 10:00am - 10:50am<br>F 10:00am - 10:50am | Seats (Total: 23)<br>ESJ 1215<br>TLF 1101 | <br><br>Discussion |
| 0102 | Jeremy Simmons<br>MW 10:00am - 10:50am<br>F 11:00am - 11:50am | Seats (Total: 23)<br>ESJ 1215<br>TLF 1101 | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 0103 | Jeremy Simmons<br>MW 10:00am - 10:50am<br>F 1:00pm - 1:50pm | Seats (Total: 23)<br>ESJ 1215<br>TLF 1101 | Discussion |

**HIST111** **The Medieval World**

*The development of Europe in the Middle Ages; the role of religious values in shaping new social, economic, and political institutions; medieval literature, art and architecture.*

| | | | |
|---|---|---|---|
| 0101 | Stefano Villani<br>TuTh 11:00am - 11:50am<br>F 9:00am - 9:50am | Seats (Total: 23)<br>EGR 1202<br>TLF 2108 | Discussion |
| 0102 | Stefano Villani<br>TuTh 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 23)<br>EGR 1202<br>TLF 2108 | Discussion |
| 0103 | Stefano Villani<br>TuTh 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 23)<br>EGR 1202<br>TLF 2108 | Discussion |
| 0104 | Stefano Villani<br>TuTh 11:00am - 11:50am<br>F 12:00pm - 12:50pm | Seats (Total: 23)<br>EGR 1202<br>TLF 2108 | Discussion |
| 0105 | Stefano Villani<br>TuTh 11:00am - 11:50am<br>F 1:00pm - 1:50pm | Seats (Total: 23)<br>EGR 1202<br>TLF 2108 | Discussion |
| 0106 | Stefano Villani<br>TuTh 11:00am - 11:50am<br>F 2:00pm - 2:50pm | Seats (Total: 23)<br>EGR 1202<br>TLF 2108 | Discussion |

**HIST120** **Islamic Civilization**

*Cross-listed with: RELS120. Credit only granted for: HIST120 or RELS120.*

*Introduction to society and culture in the Middle East since the advent of Islam: as a personal and communal faith; as artistic and literary highlights of intellectual and cultural life; and as the interplay between politics and religion under the major Islamic regimes.*

| | | | |
|---|---|---|---|
| 0101 | Rachel Schine<br>MW 10:00am - 10:50am<br>F 9:00am - 9:50am | Seats (Total: 23)<br>ESJ 2212<br>TLF 2103 | Discussion |

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|---|---|---|---|
| 0102 | Rachel Schine<br>MW 10:00am - 10:50am<br>F 10:00am - 10:50am | Seats (Total: 23)<br>ESJ 2212<br>TLF 2103 | Discussion |
| 0103 | Rachel Schine<br>MW 10:00am - 10:50am<br>F 12:00pm - 12:50pm | Seats (Total: 23)<br>ESJ 2212<br>TLF 2103 | Discussion |

**HIST122** **African Civilization to 1800**

*History of Africa from earliest times to 1800. Topics of study include origins of African societies, Nile Valley civilization, medieval African states and societies, Islam, oral traditions, African slavery and the slave trade, and early African-European interactions.*

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|---|---|---|---|
| 0101 | Paul Landau<br>TuTh 11:00am - 12:15pm | Seats (Total: 23)<br>TLF 2108 | |

**HIST132** **Fighting Slavery**

*An examination of the different tools and tactics, means and methods that Americans have used to escape slavery or try to eliminate it.*

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|---|---|---|---|
| 0101 | Richard Bell<br>MW 1:00pm - 1:50pm<br>F 9:00am - 9:50am | Seats (Total: 23)<br>ESJ 2208<br>EDU 3236 | Discussion |
| 0102 | Richard Bell<br>MW 1:00pm - 1:50pm<br>F 10:00am - 10:50am | Seats (Total: 23)<br>ESJ 2208<br>KNI 1206 | Discussion |
| 0103 | Richard Bell<br>MW 1:00pm - 1:50pm<br>F 11:00am - 11:50am | Seats (Total: 23)<br>ESJ 2208<br>EDU 1315 | Discussion |

**HIST133** **God Wills It! The Crusades in Medieval and Modern Perspectives**

*Cross-listed with: RELS133. Credit only granted for: HIST133, RELS133 or RELS289D. Formerly: RELS289D.*

*An examination of the identities and convictions both of the Western Europeans who participated in the Crusades and of the Easterners (Muslim, Christian, and Jewish) whom they encountered in the Holy Land. Focuses on the era of the first four great Crusades, from about 1095 to 1215. Consideration of the cultural impact of these movements on both Western Europe and the Middle East.*

| | | | | |
|---|---|---|---|---|
| 0101 | Janna Bianchini<br>MW 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 40)<br>KEY 0103<br>ONLINE | Discussion | |

**HIST134** **Spies, Assassins, Martyrs, and Witches: Famous Trials in American History**

*Examination of some of the most famous trials in American history and their enduring hold on the imagination.*

| | | | | |
|---|---|---|---|---|
| 0101 | Michael Ross<br>TuTh 9:30am - 10:20am<br>W 9:00am - 9:50am | Seats (Total: 23)<br>KEY 0106<br>TLF 2103 | Discussion | |
| 0102 | Michael Ross<br>TuTh 9:30am - 10:20am<br>W 10:00am - 10:50am | Seats (Total: 23)<br>KEY 0106<br>TLF 2103 | Discussion | |
| 0103 | Michael Ross<br>TuTh 9:30am - 10:20am<br>W 11:00am - 11:50am | Seats (Total: 23)<br>KEY 0106<br>TLF 2103 | Discussion | |
| 0104 | Michael Ross<br>TuTh 9:30am - 10:20am<br>W 12:00pm - 12:50pm | Seats (Total: 23)<br>KEY 0106<br>TLF 2103 | Discussion | |
| 0105 | Michael Ross<br>TuTh 9:30am - 10:20am<br>W 1:00pm - 1:50pm | Seats (Total: 23)<br>KEY 0106<br>TLF 2103 | Discussion | |
| 0106 | Michael Ross<br>TuTh 9:30am - 10:20am<br>W 2:00pm - 2:50pm | Seats (Total: 23)<br>KEY 0106<br>TLF 2103 | Discussion | |

**HIST134S** **Spies, Assassins, Martyrs, and Witches: Famous Trials in American History**

*Examination of some of the most famous trials in American history and their enduring hold on the imagination.*

| | | | | |
|---|---|---|---|---|
| 0201 | Michael Ross<br>TuTh 9:30am - 10:20am<br>W 11:00am - 11:50am<br>*Restricted to students in the M-Law program.* | Seats (Total: 27)<br>KEY 0106<br>LEF 0135 | Discussion | |

**HIST135** **Civil Discourse or Urban Riot: Why Cities Don't (Often) Explode**

*Cross-listed with: JWST289E. Credit only granted for: HIST135 or JWST289E.*

*An examination of the mechanisms that promote peaceful co-existence in urban societies and a discussion of how and why city streets sometimes become violent.*

| | | | |
|---|---|---|---|
| 0101 | Bernard Cooperman<br>MW 12:00pm - 12:50pm<br>F 11:00am - 11:50am | Seats (Total: 23)<br>ESJ 0215<br>ASY 3207 | Discussion |
| 0102 | Bernard Cooperman<br>MW 12:00pm - 12:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 23)<br>ESJ 0215<br>ASY 3207 | Discussion |
| 0103 | Bernard Cooperman<br>MW 12:00pm - 12:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 23)<br>ESJ 0215<br>ASY 3203 | Discussion |

**HIST136** **Moneyland: Business in American Culture**

*An exploration of American business culture and institutions from colonial times to the present with emphasis on how inherited and acquired identities (social capital) have shaped Americans' experiences as entrepreneurs, managers, workers, and consumers.*

| | | | |
|---|---|---|---|
| 0101 | David Sicilia<br>MW 10:00am - 10:50am<br>M 12:00pm - 12:50pm | Seats (Total: 23)<br>TWS 0320<br>KNI 1206 | Discussion |
| 0102 | David Sicilia<br>MW 10:00am - 10:50am<br>M 1:00pm - 1:50pm | Seats (Total: 23)<br>TWS 0320<br>KNI 1103 | Discussion |
| 0103 | David Sicilia<br>MW 10:00am - 10:50am<br>W 12:00pm - 12:50pm | Seats (Total: 23)<br>TWS 0320<br>KNI 1206 | Discussion |

**HIST200** **Interpreting American History: Beginnings to 1877**

*Credit only granted for: HIST156 or HIST200. Formerly: HIST156.*

*The United States from colonial times to the end of the Civil War. Establishment and development of American institutions.*

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|---|---|---|---|
| 0101 | Howard Smead<br>MW 1:00pm - 1:50pm<br>W 10:00am - 10:50am | Seats (Total: 23)<br>KEY 0106<br>MMH 1304 | Discussion |

| | | | |
|---|---|---|---|
| 0102 | Howard Smead<br>MW 1:00pm - 1:50pm<br>W 12:00pm - 12:50pm | Seats (Total: 23)<br>KEY 0106<br>TLF 1101 | Discussion |
| 0103 | Howard Smead<br>MW 1:00pm - 1:50pm<br>W 9:00am - 9:50am | Seats (Total: 23)<br>KEY 0106<br>TLF 1101 | Discussion |
| 0104 | Howard Smead<br>MW 1:00pm - 1:50pm<br>F 9:00am - 9:50am | Seats (Total: 23)<br>KEY 0106<br>TLF 1101 | Discussion |
| 0105 | Howard Smead<br>MW 1:00pm - 1:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 23)<br>KEY 0106<br>TLF 1101 | Discussion |
| 0106 | Howard Smead<br>MW 1:00pm - 1:50pm<br>F 11:00am - 11:50am | Seats (Total: 23)<br>KEY 0106<br>TLF 1103 | Discussion |
| FC01 | Howard Smead<br>MW 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 20)<br>SQH 1121 | |

**HIST201** **Interpreting American History: From 1865 to the Present**

*Credit only granted for: HIST157 or HIST201. Formerly: HIST157.*

*The United States from the end of the Civil War to the present. Economic, social, intellectual, and political developments. Rise of industry and emergence of the United States as a world power.*

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| 0101 | Howard Smead<br>MW 12:00pm - 12:50pm<br>M 9:00am - 9:50am | Seats (Total: 23)<br>KEY 0106<br>TLF 1103 | Discussion |
| 0102 | Howard Smead<br>MW 12:00pm - 12:50pm<br>M 10:00am - 10:50am | Seats (Total: 23)<br>KEY 0106<br>TLF 1103 | Discussion |
| 0103 | Howard Smead<br>MW 12:00pm - 12:50pm<br>M 1:00pm - 1:50pm | Seats (Total: 23)<br>KEY 0106<br>TLF 1103 | Discussion |

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|---|---|---|---|
| 0104 | Howard Smead<br>MW 12:00pm - 12:50pm<br>W 9:00am - 9:50am | Seats (Total: 23)<br>KEY 0106<br>TLF 1103 | Discussion |
| 0105 | Howard Smead<br>MW 12:00pm - 12:50pm<br>W 10:00am - 10:50am | Seats (Total: 23)<br>KEY 0106<br>TLF 1103 | Discussion |
| 0106 | Howard Smead<br>MW 12:00pm - 12:50pm<br>W 1:00pm - 1:50pm | Seats (Total: 23)<br>KEY 0106<br>TLF 1103 | Discussion |
| 0107 | Howard Smead<br>MW 12:00pm - 12:50pm<br>F 9:00am - 9:50am | Seats (Total: 23)<br>KEY 0106<br>TLF 1103 | Discussion |
| 0108 | Howard Smead<br>MW 12:00pm - 12:50pm<br>F 10:00am - 10:50am | Seats (Total: 23)<br>KEY 0106<br>TLF 1103 | Discussion |
| 0109 | Howard Smead<br>MW 12:00pm - 12:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 23)<br>KEY 0106<br>TLF 0110 | Discussion |
| 0201 | Robert Chiles<br>TuTh 12:30pm - 1:20pm<br>Tu 9:30am - 10:20am | Seats (Total: 23)<br>SHM 2102<br>TLF 2103 | Discussion |
| 0202 | Robert Chiles<br>TuTh 12:30pm - 1:20pm<br>Tu 11:00am - 11:50am | Seats (Total: 23)<br>SHM 2102<br>TLF 2103 | Discussion |
| 0203 | Robert Chiles<br>TuTh 12:30pm - 1:20pm<br>Tu 2:00pm - 2:50pm | Seats (Total: 23)<br>SHM 2102<br>TLF 2103 | Discussion |
| 0204 | Robert Chiles<br>TuTh 12:30pm - 1:20pm<br>Th 9:30am - 10:20am | Seats (Total: 23)<br>SHM 2102<br>TLF 2103 | Discussion |

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| 0205 | Robert Chiles<br>TuTh 12:30pm - 1:20pm<br>Th 11:00am - 11:50am | Seats (Total: 23)<br>SHM 2102<br>TLF 2103 | <br><br>Discussion |
| 0206 | Robert Chiles<br>TuTh 12:30pm - 1:20pm<br>Th 2:00pm - 2:50pm | Seats (Total: 23)<br>SHM 2102<br>TLF 1103 | <br><br>Discussion |
| FC02 | Robert Chiles<br>TuTh 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 27)<br>TLF 1101 | |

**HIST204** **Introduction to the History of Science**

*Credit only granted for: HIST174 or HIST204. Formerly: HIST174.*

*An exploration of the roots of modern science from the ancient Greeks through the medieval and early modern periods. Focus on the men and women who helped to create the sciences and to change public perceptions of their disciplines.*

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| 0101 | Melinda Baldwin<br>MW 2:00pm - 3:15pm | Seats (Total: 40)<br>SQH 1105 |

**HIST208E** **Historical Research and Methods Seminar; Resistance in History, 17th to 19th Century**

(Perm req)

*Reading and research skills and methods. Research papers will be based on the topic of the seminar.*

Students will craft an original piece of historical scholarship that examines an instance, pattern, or form of resistance, broadly defined. We will use resistance as a vehicle for understanding how individuals, communities, societies, and nations have responded to change over time, the guiding principle of all historical scholarship.

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| 0101 | John Fetherston<br>MW 2:00pm - 3:15pm | Seats (Total: 12)<br>KEY 0117 |
| 0201 | John Fetherston<br>MW 3:30pm - 4:45pm | Seats (Total: 12)<br>KEY 0117 |

**HIST208F** **Historical Research and Methods Seminar; Maryland History, Culture, Virtues, and Vices, 17th Century to the Present**

(Perm req)

*Reading and research skills and methods. Research papers will be based on the topic of the seminar.*

Examines Maryland as a microcosm of the United States as a colony and a republic. Students will study Maryland's social, cultural, economic, and political development from the colonial period through the twenty-first century, and explore the state's place in the context of greater American and Atlantic history.

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| 0101 | Jane Polcen<br>TuTh 9:30am - 10:45am | Seats (Total: 12)<br>KEY 0117 |
| 0201 | Jane Polcen<br>TuTh 11:00am - 12:15pm | Seats (Total: 12)<br>KEY 0117 |

**HIST208G** **Historical Research and Methods Seminar; Political and Social Transformations in the Middle East, 15th Century to the Present**

(Perm req)

*Reading and research skills and methods. Research papers will be based on the topic of the seminar.*

Delves into the political, social, cultural, and religious dynamics of the early modern and modern history of the greater Middle East and North Africa, including the region's multifaceted interactions with the rest of the world.

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| 0101 | Saban Agalar<br>TuTh 12:30pm - 1:45pm | Seats (Total: 12)<br>KEY 0117 |
| 0201 | Saban Agalar<br>TuTh 2:00pm - 3:15pm | Seats (Total: 12)<br>KEY 0117 |

**HIST215** **Women in Western Europe to 1750**

*Credit only granted for: HIST215 or HIST219A. Formerly: HIST219A.*

*An exploration of the theories and rhetoric about the nature and existence of women in the West, focusing on the experience of women from the hegemony of Classical Greece to the French Revolution, an era that marks the beginning of a continuous process of change. Emphasis will be on the period between 1250 and 1750, when the Western European world was fundamentally altered in every aspect and in every level of society, culture, and government.*

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| 0101 | Sabrina Baron<br>TuTh 2:00pm - 3:15pm | Seats (Total: 40)<br>KEY 0103 |

**HIST219I** **Religions of the Ancient Near East**

*Cross-listed with: RELS225, JWST225. Credit only granted for: JWST225, HIST219I, RELS225, or RELS219A. Formerly: RELS219A.*

*Introduction to ancient Near Eastern religious systems and mythology, from the third millennium BCE through the fourth century BCE. Particular emphasis on Mesopotamia and ancient Israel.*

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| 0101 | Matthew Suriano | Seats (Total: 25) |
| | MW 3:30pm - 4:45pm | HBK 0125 |

**HIST219T** **Discovering the World of Ancient Rome**

*Cross-listed with: CLAS190. Credit only granted for: CLAS190 or HIST219T.*

*An exploration of the cultural traits and developments of ancient Roman civilization from its roots in Etruscan culture, through the rise of the Roman Republic, to the expansion of Roman cultural influence in the ancient world and the emergence of the Roman Empire. Drawing upon the evidence of the archaeological remains as well as ancient historical and literary documents, students gain a basic familiarity with the principal monuments and artifacts of ancient Roman civilization, the various institutions and values that characterized the Romans, and the significant historical events that transformed the culture over the course of antiquity.*

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| 0101 | Jorge Bravo | Seats (Total: 35) |
| | MW 2:00pm - 3:15pm | PHY 0405 |

**HIST221** **Asian American History**

*Cross-listed with: AAST201. Credit only granted for: AAST201 or HIST221.*

*Introduction to the history of Asian Americans and Asians in the United States and the Americas and to the field of Asian American Studies, from an interdisciplinary perspective. Topics include theories of race and ethnicity; Asian migration and diaspora to the Americas; Asian American work and labor issues; gender, family, and communities; nationalism and nativism, and anti-Asian movements; Asian Americans in World War II, the Cold War, and the issues in the civil rights & post-civil rights era.*

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|---|---|---|
| 0101 | Madeline Hsu | Seats (Total: 40) |
| | TuTh 9:30am - 10:45am | KEY 0126 |

**HIST226** **Revolution, Regret, and Reform: The People and Principles in American Political History**

*Credit only granted for: HONR299G or HIST226. Formerly: HONR299G.*

*Explores American political history from Independence through the present day. Interrogates the roots of American political ideas, the dynamics of partisan competition, the interaction of class, ethnicity, race, and politics, the evolution of policy preferences, the growth of the state, and the transformation of grassroots expectations and ambitions, among other important themes. By exploring the writings of major figures as well as the preferences of anonymous voters--and everyone in between, this course will help students identify the overarching themes and the important forgotten moments in our nation's political development. Students will end the semester armed with a mastery of this history, an understanding of the methods of political historians and scholars in related fields, and a contextualization of our contemporary political world.*

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| 0101 | Robert Chiles | Seats (Total: 40) |
| | TuTh 11:00am - 12:15pm | KEY 0116 |

**HIST232** **The Historical Development of London**

*Restriction: Permission of Study Abroad Office required. Credit only granted for: GNED288 and HIST232. Formerly: GNED288.*

*Study Abroad in London, England. The history of London, beginning with its foundation by the Romans, continuing with the city's progressive political and cultural domination of England, the British Isles and the British Empire, and concluding with a look at the city in the 20th century. Students look at London through the eyes of contemporaries and historians while forming their own impressions of the city during course-based walking tours of the city.*

**Contact department for information to register for this course.**

**HIST234** **Invaders, Conquerors, Usurpers: A History of Pre-Modern Britain to 1485**

*British history from Roman times to the 15th century. The Anglo-Saxon, Scandinavian, and Norman invasions; the coming of Christianity; Magna Carta, the development of Parliament, legal institutions, and the Common Law; the decline of medieval kingship.*

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| 0101 | Sabrina Baron | Seats (Total: 40) |
| | TuTh 11:00am - 12:15pm | KEY 0103 |

**HIST250** **History of Colonial Latin America**

*Cross-listed with: LACS250. Credit only granted for: LASC250, HIST250, OR LACS250. Formerly: LASC250.*

*Introductory survey of the history of Latin America from pre-Columbian Indian cultures to the beginning of the wars for independence (ca. 1810), covering cultural, political, social, and economic developments. Major themes include conquest, colonialism, indigenous culture, African slavery, religion, race and ethnicity, and gender ideologies.*

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| 0101 | David Sartorius | Seats (Total: 40) |
| | TuTh 3:30pm - 4:45pm | SQH 1105 |

**HIST254** **African-American History to 1865**

*Cross-listed with: AAAS254. Credit only granted for: HIST254, AAAS254 or AASP298C.*

*Survey of the principal developments in the history and culture of the peoples of African descent in colonial North America and the United States to 1865. Examines the African past, the Atlantic slave trade, variation in slavery, the growth of free black communities, the transformations of families and cultural forms, and patterns of resistance.*

Cross-listed with AASP298C. Credit will be granted for AASP298C or HIST 254.

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| 0101 | Christopher Bonner | Seats (Total: 40) |
| | TuTh 12:30pm - 1:45pm | KEY 0116 |

**HIST261** **Medicine in an Age of Empires, 1500-1800**

*An introduction to the broad shifts in European medicine of early modern period, a period that saw the extension of overseas empires and the emergence of medicine as a profession. The course offers a thematic and comparative look at the intertwined experiences of disease, empire, and global commerce that reshaped expectations of what medicine could or should do, for whom, and at what cost.*

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| 0101 | Zachary Dorner<br>TuTh 9:30am - 10:45am | Seats (Total: 40)<br>KEY 0103 | |

**HIST269** **Special Topics in Study Abroad II**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**HIST269M** **Special Topics in Study Abroad II; History of Modern Italy**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**HIST269Y** **Special Topics in Study Abroad II; Rome: Republic and Empire**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**HIST284** **East Asian Civilization I**

*An interdisciplinary survey of the development of East Asian cultures. An historical approach drawing on all facets of East Asian traditional life, to gain an appreciation of the different and complex cultures of the area.*

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| 0101 | Ting Zhang<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 23)<br>SYM 0200<br>EDU 3233 | <br><br>Discussion |
| 0102 | Ting Zhang<br>MW 11:00am - 11:50am<br>F 1:00pm - 1:50pm | Seats (Total: 23)<br>SYM 0200<br>SQH 1123 | <br><br>Discussion |
| 0103 | Ting Zhang<br>MW 11:00am - 11:50am<br>F 2:00pm - 2:50pm | Seats (Total: 23)<br>SYM 0200<br>SQH 1123 | <br><br>Discussion |

**HIST286** **Urban Dreams and Nightmares: The Jewish Experience of Cities**

*Cross-listed with: JWST275. Credit only granted for: HIST286 or JWST275.*

*Cities give expression to man's power while they highlight human limitations. It is urban social diversity that makes great wealth and thriving culture possible, but it also fixes discrimination behind walls constructed from paper and stone. Nations make cities symbols of the sacred and the glorious, while they ignore the poverty and social alienation that city life breeds. Jews, intensively urbanized for millennia, provide a special vantage point from which to study the beauty and the tragedy implicit in city-building. Our sources will include the Bible, poems, plays and novels but also US Supreme Court rulings and news of riots in Israel. We will survey how Jews have shaped, and been shaped by, the urban challenge over time and space.*

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| 0101 | Bernard Cooperman<br>MW 2:00pm - 3:15pm | Seats (Total: 40)<br>KEY 0103 | |

**HIST289N** **The Politics of Sexuality in America: A Historical Approach**

*Cross-listed with: WGSS298N. Credit only granted for: HIST289N or WGSS298N.*

*Why do particular issues about sexuality hold such an important place in American political debates? What animates these controversies and what can a historical perspective on these issues add to our understanding of modern sexual politics? This class explores the historical sexual politics that undergird contemporary debates concerning sexuality in America. It focuses on topics that garner significant public attention - Reproductive rights - LGBTQ rights - Sexting - and explores the histories that undergird Americans disagreements.*

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| 0101 | Clare Lyons<br>MW 11:00am - 11:50am<br>W 1:00pm - 1:50pm | Seats (Total: 23)<br>PLS 1140<br>KEY 0100 | Discussion |
| 0102 | Clare Lyons<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 23)<br>PLS 1140<br>KEY 0100 | Discussion |
| 0103 | Clare Lyons<br>MW 11:00am - 11:50am<br>F 1:00pm - 1:50pm | Seats (Total: 23)<br>PLS 1140<br>KEY 0100 | Discussion |

**HIST289O** **Lawlessness: From Pirates to Body-snatchers, Exploring the Legitimacy of Illicit Activity**

*Explores motives of and responses to the lawless behavior of pirates, body snatchers, bandits, vigilantes, smugglers and others worldwide from the 1500s to today.*

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| 0101 | Anne Rush<br>TuTh 12:30pm - 1:20pm<br>F 11:00am - 11:50am | Seats (Total: 23)<br>SYM 0200<br>TLF 2103 | Discussion |

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| 0102 | Anne Rush<br>TuTh 12:30pm - 1:20pm<br>F 1:00pm - 1:50pm | Seats (Total: 23)<br>SYM 0200<br>TLF 2103 | Discussion |
| 0103 | Anne Rush<br>TuTh 12:30pm - 1:20pm<br>F 2:00pm - 2:50pm | Seats (Total: 23)<br>SYM 0200<br>TWS 1321 | Discussion |
| FC01 | Anne Rush<br>TuTh 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 27)<br>TLF 1103 | |

**HIST299** **Directed Research**

(Perm req)

*Closely guided research in primary sources for students currently enrolled in selected 100- or 200-level surveys in the Department of History.*

Prerequisite: permission of department.

**Contact department for information to register for this course.**

**HIST310** **History of South Africa**

*Formerly: HIST419E.*

*Explores the roots of Apartheid and the anti-Apartheid movement from precolonial times to the present: the social history of work and identity, the rise of kingdoms (Zulu, Sotho), conquest and colonial administration, urban and rural mass politics, gender relations, and the transition to democracy.*

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| 0101 | Paul Landau<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>KEY 0100 |

**HIST319C** **Special Topics in History; The Roman Empire in Late Antiquity**

Cross-listed with RELS319K. Credit only granted for RELS319K or HIST319C. Explores a famous historical conundrum Edward Gibbon (d. 1794) defined as The Decline and Fall of the Roman Empire. What historical forces, operating between the third century and the seventh, brought the high Classical civilization of the Greeks and Romans to an end? Was it the invasions of Germans and other barbarian peoples? The bubonic plague or climate disasters? Do we think our own societies and governments would respond to similar challenges? Or, was Gibbon wrong, and Rome never really "fell?"

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| 0101 | Elizabeth Conner<br>TuTh 12:30pm - 1:45pm | Seats (Total: 40)<br>KEY 0103 |

**HIST319F** **Special Topics in History; Modern African History through Film, Literature, and Music**

Approaches film, literature, and music as interpretive lenses through which to understand 19th- and 20th-century African history, with special emphasis on the ways that African artists have used creative genres to reclaim Africa's past while also imagining new futures.

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| 0101 | Erin Mosely<br>Class time/details on ELMs<br>W 2:00pm - 3:15pm | Seats (Total: 30)<br>ONLINE<br>KEY 0116 |

**HIST319G** **Special Topics in History; The Vikings**

Study of the Vikings from their origins in late antique Scandinavia through the Norman conquest, looking at them both as feared pillagers and conquerors in the west and merchant adventurers in the east. Focus on combining textual histories, myth, and archaeology to reconstruct an image of Viking life, motivations, and society.

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| 0101 | Christopher Halsted<br>TuTh 11:00am - 12:15pm | Seats (Total: 40)<br>KEY 0126 |

**HIST319P** **Special Topics in History; Ukraine and Russia: Entangled Histories, Clashing Identities**

Formerly offered as HIST429W. Credit only for HIST319P or HIST429W. Interactions and encounters as well as divergences between the processes of Ukrainian and Russian national identity and state formation, in a broader context of East European and Slavic history, from the Middle Ages up to Russia's aggression against Ukraine in 2022.

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| 0101 | Mikhail Dolbilov<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>TLF 1101 |

**HIST319T** **Special Topics in History; Witchcraft and Magic**

Explores the genesis and impact of the "Witch Craze" in Europe from the fourteenth to the late seventeenth centuries.

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| 0101 | Philip Soergel<br>TuTh 2:00pm - 3:15pm | Seats (Total: 40)<br>IRB 2207 |

**HIST319X** **Special Topics in History; Black Women in Twentieth Century America**

Cross-listed with WGSS379J, AMST498D, and AASP398J. Credit only granted for HIST319X, WGSS379J, AMST498D, or AASP398J. Traces twentieth-century United States history from the perspective of Black women. We will center their diverse voices and experiences as we explore themes including family, work, activism, and cultural expression.

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| 0101 | Leigh Soares<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>TYD 1118 |

**HIST319Y** **Special Topics in History; Making of Middle Eastern Identities**

Cross-listed with HIST319Y. Credit only granted for ARAB398M or HIST319Y. Taught in English.

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| 0101 | Rachel Schine<br>MW 3:30pm - 4:45pm | Seats (Total: 15)<br>HJP 2114 |

**HIST324** **Classical Greece**

*The ancient Greeks from Homer to Socrates, 800-400 B.C. Society and religion of the city-state, the art and literature of Periclean Athens, the Peloponnesian War, and the intellectual circle of Socrates.*

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| 0101 | Jeremy Simmons<br>MW 2:00pm - 3:15pm | Seats (Total: 40)<br>TWS 0207 |

**HIST328B** **Selected Topics in History; Globalization at Sea: The Indian Ocean in World History**

Explores the history of globalization on a regional scale, focusing on the Indian Ocean as a space connecting Asia, Africa, and the Middle East from medieval times to the present. Tracks the rise and fall of empires and nation-states, migration, trade, the environment, and the spread of ideas, using a primarily biographical approach that follows the journeys and experiences of individuals.

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| 0101 | Mircea Raianu<br>MW 2:00pm - 3:15pm | Seats (Total: 30)<br>TLF 1101 |

**HIST328F** **Selected Topics in History; The Right in Israel: A Historical Examination**

Cross-listed with ISRL349D and GVPT368I. Credit only granted for ISRL349D, HIST328F, or GVPT368I. Israel has been moving towards the political Right during the last 30 years, as became obvious in its last election in November 2022. This course explores the history of that movement, beginning before Israel became a state, but focusing primarily on 1967 to the present. No previous knowledge of Israeli history required. Contact the instructor for more information.

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| 0101 | Paul Scham<br>TuTh 3:30pm - 4:45pm | Seats (Total: 25)<br>JMZ 2120 |

**HIST328J** **Selected Topics in History; Transnational Neorealism**

Cross-listed with CINE329A. Credit only granted for HIST328J or CINE329A. Examining -- and trenchantly going beyond -- the allegedly Italian origins of neorealism, this course will use select examples from the global cinema of the second postwar to look at the transnational, cultural, and political history of this famous film style.

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| 0101 | Saverio Giovacchini<br>MW 12:00pm - 1:15pm | Seats (Total: 30)<br>KEY 0103 |

**HIST328L** **Selected Topics in History; Empires, Revolutions, and Cold Wars: Modern Central and Eastern Europe**

We live in an international system upended by Russia's full-scale invasion of Ukraine in 2022. Central and Eastern Europe -- a region largely taken for granted since the end of the Cold War -- is now once again the key battleground for the future of the rules-based global order. This course will offer a broad overview of that region's history since the late 1700s -- through empires, revolutions, and cold wars -- and provide students with the critical tools to develop their own views on that history.

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| 0101 | Piotr H Kosicki | Seats (Total: 40) |
| | TuTh 11:00am - 12:15pm | ONLINE |

**HIST328N** **Selected Topics in History; Korea in the 20th Century: Nationalism, Colonialism, and the Cold War**

An introduction to the history of 20th century Korea and the foreign relations of two Koreas and their neighbors; focus on Japanese colonial rule, US-Soviet occupation, the Cold War, and the dynamics of inter-Korean relations.

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| 0101 | Deokhyo Choi | Seats (Total: 30) |
| | TuTh 3:30pm - 4:45pm | KEY 0125 |

**HIST328O** **Selected Topics in History; Inventing the New World**

From Columbus to the Amazons, El Dorado and the cannibals. Explores how sixteenth-century Europeans tried to make sense of their discovery of the Americas. Emphasis on the ways in which the textual and visual representations of native peoples and their cultures by explorers, conquistadors, mapmakers and missionaries contributed to development of European colonialism.

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| 0101 | Alejandro Caneque | Seats (Total: 30) |
| | TuTh 2:00pm - 3:15pm | KEY 0116 |

**HIST328V** **Selected Topics in History; The Soviet Collapse and its Aftermath**

An examination of the causes and consequences of the Soviet Union's sudden demise in 1991. Emphasis on the Soviet Union as a multiethnic state and the long reverberations of the collapse in Russia (including Putin's rise to power), Ukraine, the Caucasus and elsewhere.

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| 0101 | Sarah Cameron | Seats (Total: 30) |
| | MW 2:00pm - 3:15pm | KEY 0100 |

**HIST329A** **Special Topics in History; Britain in the Age of Bridgerton**

Period dramas like Bridgerton and Jane Austen adaptations often present a fantasy of the late Georgian and Regency period; this course will explore the social, political and cultural realities, from slavery in the sugar colonies and Parliamentary politics to the history of fashion and sexuality. We will also examine how 21st century popular culture uses this period in history to promote a certain version of "Britishness" andr omanticize the past for profit.

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| 0101 | Julie Taddeo | Seats (Total: 30) |
| | TuTh 9:30am - 10:45am | TLF 1101 |

**HIST329I** **Special Topics in History; Colonial America and the Caribbean, 1492-1804**

Considers continental North America and the Caribbean as part of an integrated and interconnected colonial system. Spans from pre-Columbian indigenous societies to the Haitian Revolution. Key themes include: indigenous dispossession, racial slavery, creolization, struggles for power, authority, and dominion, development of Atlantic economies.

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| 0101 | Michael Becker<br>MW 3:30pm - 4:45pm | Seats (Total: 30)<br>KEY 0126 |

**HIST329O** **Special Topics in History; Ideologies, Parties, and Social Movements in the Modern Middle East**

Focuses on the emergence and evolution of political and social movements in Middle Eastern countries since the second half of the 19th century. Orientations spanned from left wing radicalism, communism, to political Islam and right-wing nationalism.

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| 0101 | Peter Wien<br>Tu 12:30pm - 1:45pm<br>Class time/details on ELMs | Seats (Total: 30)<br>TLF 2100<br>ONLINE |

**HIST329R** **Special Topics in History; History of Antisemitism**

Cross-listed with JWST319X. Credit only granted for HIST329R or JWST319X. Hatred of the Jews has a long history, stretching from antiquity to the present. Based on many causes -- religious animosity, economic challenges, racial fears, political anxieties -- antisemitism may have waxed and waned over the past two thousand years, but it has proven a remarkably resilient and often deadly concept. This course will examine the main claims of the antisemites from antiquity to the present, the causes for the emergence of antisemitic invective and behavior in different periods and places, and the ways Jews devised to cope with the threat that anti-Jewish hostility posed. We will focus on primary sources as well as scholarly analyses. Hopefully we will come to understand how different societies coped with an unusual religo-ethnic minority group and how that minority group understood its place in those societies.

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| 0101 | Marsha Rozenblit<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>TLF 1103 |

**HIST331** **Europe in the High Middle Ages: 1000-1500**

*Cross-listed with: RELS341. Credit only granted for: HIST331 or RELS341.*

*Medieval civilization in the 11th through 15th centuries. Emphasis on cultural and political developments of the high Middle Ages with study of the principal sources of medieval thought and learning, art and architecture, and political theory prior to the Renaissance.*

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| 0101 | Janna Bianchini<br>MW 2:00pm - 3:15pm | Seats (Total: 30)<br>JMZ 0122 |

**HIST332** **Renaissance Europe**

*Cross-listed with: RELS342. Credit only granted for: HIST332 or RELS342.*

*Intellectual developments in Italy and Northern Europe from 1300 to 1550 and their influence on the arts and religion; social and economic trends, including the rise of the commercial economy in cities; the family and the role of women in society; expansion of Europe overseas and the beginnings of colonization; emergence of the state and consequent changes in political theory.*

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| 0101 | Stefano Villani<br>TuTh 3:30pm - 4:45pm | Seats (Total: 30)<br>KEY 0126 |

**HIST339A** **Special Topics in History; History of Socialism**

*Thematic exploration of a topic in history.*

A global historical approach to one of the most enduring challenges to capitalism, with attention to the political movements it has animated and its social, aesthetic, and intellectual trajectories.

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| 0101 | David Sartorius<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>KEY 0100 |

**HIST339T** **Special Topics in History; History of Iraq**

*Thematic exploration of a topic in history.*

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|---|---|---|
| 0101 | Peter Wien<br>Th 12:30pm - 1:45pm<br>Class time/details on ELMs | Seats (Total: 30)<br>TLF 2100<br>ONLINE |

**HIST355** **Civil War and the Rise of Industrialization, 1860-1900**

*Credit only granted for: HIST355 or HIST364.*

*Civil War, sectional and class conflicts and their impact on American life and institutions from the beginning of the Civil War through the Gilded Age; social, economic, and political reconstruction of the Union; industrialization, urbanization, and technological changes.*

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| 0101 | Robert Chiles<br>TuTh 9:30am - 10:45am | Seats (Total: 40)<br>KEY 0116 |

**HIST357** **Recent America: 1945-Present**

*American history from the inauguration of Harry S. Truman to the present with emphasis upon politics and foreign relations, but with consideration of special topics such as radicalism, conservatism, and labor.*

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| 0101 | Howard Smead<br>TuTh 3:30pm - 4:45pm | Seats (Total: 40)<br>KEY 0103 |

**HIST361** **Metropolitan Change and Modern America: Cities, Suburbs, Hinterlands**

*Credit only granted for: HIST419B or HIST361. Formerly: HIST419B.*

*An exploration of the forces that have transformed metropolitan and rural life since the mid-19th century. What role have politics, policy, economics, and ideology/culture played in creating an urbanized and then a "suburbanized" nation?*

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|---|---|---|
| 0101 | David Freund | Seats (Total: 30) |
| | MW 2:00pm - 3:15pm | LEF 1220 |

**HIST369F** **Special Topics in Study Abroad III; Caesar, Cicero and the Collapse of the Roman Republic**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**HIST376** **History of Modern Israel**

*Cross-listed with ISRL342. Credit only granted for: HIST376 or ISRL342.*

*History of modern Israel since the beginning of the Zionist settlement in 1882. Attention to different interpretations and narratives of Israel's history, including the historical and ideological roots of Zionism, the establishment of the State of Israel, ideological forces, wars, and the triumphs and crises of democracy.*

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| 0101 | Paul Scham | Seats (Total: 35) |
| | TuTh 11:00am - 12:15pm | KEY 0102 |

**HIST386** **Experiential Learning**

(Perm req)

*Restriction: Permission of ARHU-History department; and junior standing or higher.*

*The History Department's Internship program. Pre-professional experience in historical research, analysis, and writing in a variety of work settings.*

**Contact department for information to register for this course.**

**HIST395** **Honors Colloquium I**

(Perm req)

*Restriction: Permission of ARHU-History department; and must be in History program.*

*History and theory: the conceptual underpinnings of the historical discipline. Students evaluate several contrasting theories of history. Prerequisite for other honors courses.*

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| 0101 | Clare Lyons | Seats (Total: 12) |
| | W 1:00pm - 3:30pm | TLF 2100 |

**HIST398** **Honors Thesis I**

*Individual research and preparation of History Honors Theses.*

**Contact department for information to register for this course.**

**HIST399** **Honors Thesis II**

*Individualized research and preparation of History Honors Theses.*

**Contact department for information to register for this course.**

**HIST408F** **Senior Seminar; Social Movements of the 1960s and 1970s**

(Perm req)

*A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.*

Using sources from archives, newspapers, and oral history collections, students will develop a research project that explores a social or cultural movement in the global "long sixties." Coursework will emphasize research skills, argumentative writing, use of historical evidence, and historiographical methodology.

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| 0101 | Katarina Keane | Seats (Total: 12) |
| | Th 12:30pm - 3:00pm | TLF 2108 |

**HIST408M** **Senior Seminar; Race and the History of Jim Crow Segregation**

(Perm req)

*A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.*

This readings seminar examines the work of race and racial formation during the rise of Jim Crow sanctioned by law and custom from 1865-1967.

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|---|---|---|
| 0101 | Quincy Mills | Seats (Total: 12) |
| | M 10:00am - 12:30pm | TLF 2108 |

**HIST408N** **Senior Seminar; Revolutions and Rebellions in the Atlantic World**

(Perm req)

*A capstone course for history majors, designed to increase historical knowledge and the ability to analyze texts and arguments. Topics will focus on the literature of a particular field and primary-source research.*

Combination research class and digital humanities class that gets you involved in research about power, revolutions, and rebellions in the erabetween 1600-1820.Think through some of the interconnections between Europe, Africa, and the new world, focusing on rebellions, revolutions and resistance during these centuries.

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| 0101 | Holly Brewer | Seats (Total: 12) |
| | W 1:00pm - 3:30pm | TLF 2108 |

**HIST419F** **Special Topics in History; Making Public History: Behind the Scenes at the National Museum of American History**

Students will be immersed in the hands-on work of public history. Understand the origins of museums and other modes of public engagement with historical artifacts and research, and learn essential skills ranging from design and content development to label writing, visitor studies, and grant writing. NOTE: some class sessions will meet on-site at the National Museum of American History. See syllabus for meeting schedule.

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| 0101 | Kenneth Cohen | Seats (Total: 10) |
| | F 2:00pm - 4:30pm | TLF 2100 |
| | Class time/details on ELMs | ONLINE |

**HIST419O** **Special Topics in History; Plants & Diaspora: Black and Indigenous Environmental History**

Cross-listed with AASP478G. Credit only granted for HIST419O or AASP478G. Reading seminar investigating the African Diaspora in the Americas through several plants, such as mangroves, sesame, rice, oil palm, coconut palm, cassava, and peanuts. Students analyze environmental histories of slavery, colonialism, and rebellion and explore how Black and Indigenous experiences shaped landscapes of extraction, freedom, and justice.

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| 0101 | Jayson Porter | Seats (Total: 15) |
| | M 2:00pm - 4:30pm | TLF 2100 |

**HIST419P** **Special Topics in History; Origins of Ethnic Cleansing in Russia/USSR**

Nationality policies in the Russian Empire and in the Soviet Union, with a focus on large-scale violence practiced by the state against various ethnic/ethno-religious/ethno-social groups and minorities. The key theme concerns the ways in which major changes in governance, population control, and surveillance engendered persecutions, deportations, or evengenocides.

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| 0101 | Mikhail Dolbilov | Seats (Total: 30) |
| | TuTh 3:30pm - 4:45pm | KEY 0116 |

**HIST419T** **Special Topics in History; Deindustrialization and Global Capitalism**

Examines the phenomenon of deindustrialization in the context of the global history of capitalism, from the Industrial Revolution in the early 19th century to the United States in the early 21st century. Topics include technology and automation, loss of manufacturing jobs, and the decline and revitalization of urban areas. Focus on social and cultural changes accompanying the process.

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| 0101 | Mircea Raianu | Seats (Total: 15) |
| | Tu 12:30pm - 3:00pm | TLF 2108 |

**HIST419V** **Special Topics in History; The New Deal: Reimagining America**

Examines the New Deal not as an inevitable response to the Great Depression by all-knowing policymakers, but as a risky and innovative amalgam of programs generated in part by grassroots movements. Learn how some of its policies solidified race and gender hierarchies, while others helped to produce the most economically egalitarian period in United States history.

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| 0101 | Robyn Muncy | Seats (Total: 30) |
| | TuTh 3:30pm - 4:45pm | KEY 0100 |

**HIST428Q** **Selected Topics in History; Sufism: History, Literature, and Politics of Islamic Mysticism**

Cross-listed with PERS498T, PERS689T, CMLT498T, HIST638Q, and RELS419Q. Credit only granted for PERS498T, PERS689T, CMLT498T, HIST428Q, HIST638Q, or RELS419Q. Provides an introduction to the history, literature, and politics of Sufism the Islamic "mystical" mode of piety from its origins to the modern period.

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| 0101 | Matthew Miller | Seats (Total: 25) |
| | Tu 12:30pm - 3:15pm | JMZ 0125 |

**HIST429J** **Special Topics in History; The Legal History of the Civil Rights Movement**

Explores the Legal and Constitutional history of the Jim Crow Era in the United States. Topics include the rise of Jim Crow laws and"separate but equal", the NAACP's legal campaign challenging Jim Crow laws, the arrests of Civil Rights protestors and due process, major Supreme Court decisions including Brown v. Board of Education, major events including the Little Rock Crisis and the riots at the University of Mississippi, and passage of significant acts including the Civil Rights Act of 1964 and the Voting Rights Act of 1965.

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| 0101 | Michael Ross | Seats (Total: 30) |
| | TuTh 12:30pm - 1:45pm | TWS 0205 |

**HIST429O** **Special Topics in History; Righting Historical Wrongs: Global Struggles for Truth and Justice**

Explores the diverse approaches that societies around the world have adopted to investigate, adjudicate, acknowledge, or otherwise atone for a wide range of historical injustices: colonial violence, apartheid, sexual atrocities committed during war, gross human rights violations carried out by dictatorial regimes, and genocide. Global case studies with an emphasis on non-US examples.

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| 0101 | Erin Mosely | Seats (Total: 15) |
| | W 3:30pm - 6:00pm | TLF 2100 |

**HIST429Z** **Special Topics in History; American Money: Rethinking Finance and its History**

Standard macroeconomic treatments of money and finance cannot be supported by the historical record. While most textbooks say otherwise, money has its origins in credit instruments, and meanwhile its value and uses are inseparable from the public authority that issues it. We will briefly revisit that well-documented history and debates among scholars about money's origins and nature. Then we'll look at case studies--from the colonial period to the present (from the issue of the first paper bills to Bitcoin)--to examine money's role in shaping American development.

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| 0101 | David Freund | Seats (Total: 15) |
| | W 10:00am - 12:30pm | TLF 2108 |

**HIST466** **Immigration and Ethnicity in the U.S.**

*Credit only granted for: AAST498L or HIST466.*

*Seminar exploring historical problems relating to US immigration, race, and ethnicity since 1848, with emphasis on cultural impacts of migration on immigrants, their children, and U.S. society.*

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| 0101 | Robert Chiles | Seats (Total: 20) |
| | Th 2:00pm - 4:30pm | TLF 2103 |

**HIST481** **A History of Modern China**

*Modern China from 1644 to the People's Republic of China. Emphasis on the coming of the West to China and the various stages of the Chinese reaction.*

**Contact department for information to register for this course.**

**HIST483** **History of Japan Since 1800**

*Japan's renewed contact with the Western world and emergence as a modern state, industrial society, and world power, 1800-1931; and Japan's road to war, occupation, and recovery, 1931 to the present.*

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| 0101 | Deokhyo Choi | Seats (Total: 30) |
| | TuTh 12:30pm - 1:45pm | TYD 1101 |

**HIST499** **Independent Study**

(Perm req)

Prerequisite: permission of department.

**Contact department for information to register for this course.**

**HIST601** **History and Contemporary Theory**

*An introduction to contemporary theories in philosophy, literary criticism, cultural studies, anthropology, and other fields; and analysis of their usefulness to historians.*

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| 0101 | Colleen Woods | Seats (Total: 15) |
| | M 6:00pm - 8:30pm | TLF 2108 |

**HIST607** **The Teaching of History in Institutions of Higher Learning**

(Perm req)

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| 0101 | Quincy Mills | Seats (Total: 15) |
| | Contact instructor or department for details. | |

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| 0201 | Holly Brewer | Seats (Total: 6) |
| | Contact instructor or department for details. | |

**HIST608A** **General Seminar; American History**

(Perm req)

*General seminar in student's major field of study (e.g., U.S.; Women and Gender; International, World, and Comparative; Science and Technology; Latin America) exploring the concentration's major issues, topics, and literature.*

Prerequisite: permission of department.

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| 0101 | Zachary Dorner | Seats (Total: 12) |
| | Th 3:30pm - 6:00pm | TLF 2108 |

**HIST608G** **General Seminar; Colonial Latin America**

*General seminar in student's major field of study (e.g., U.S.; Women and Gender; International, World, and Comparative; Science and Technology; Latin America) exploring the concentration's major issues, topics, and literature.*

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| 0101 | Alejandro Caneque | Seats (Total: 12) |
| | Th 6:00pm - 8:30pm | TLF 2100 |

**HIST608M** **General Seminar; History of Science, Technology, Environment, and Medicine**

*General seminar in student's major field of study (e.g., U.S.; Women and Gender; International, World, and Comparative; Science and Technology; Latin America) exploring the concentration's major issues, topics, and literature.*

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| 0101 | Melinda Baldwin | Seats (Total: 12) |
| | W 6:00pm - 8:30pm | TLF 2100 |

**HIST608N** **General Seminar; Global Interaction and Exchange**

*General seminar in student's major field of study (e.g., U.S.; Women and Gender; International, World, and Comparative; Science and Technology; Latin America) exploring the concentration's major issues, topics, and literature.*

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| 0101 | Saverio Giovacchini | Seats (Total: 12) |
| | W 6:00pm - 8:30pm | TLF 2108 |

**HIST610** **Introduction to Museum Scholarship**

*Cross-listed with: AMST655, ANTH655, INST653. Credit only granted for: AMST655, ANTH655, HIST610, INST728T or INST653.*

*Provides students a basic understanding of museums as cultural and intellectual institutions. Topics include the historical development of museums, museums as resources for scholarly study, and the museum exhibition as medium for presentation of scholarship.*

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| 0201 | Diana Marsh<br>Th 2:00pm - 4:40pm | Seats (Total: 30)<br>TWS 0205 |

**HIST619A** **Special Topics in History; Independent Study**

(Perm req)

Prerequisite: permission of department.

**Contact department for information to register for this course.**

**HIST619B** **Special Topics in History; Independent Study**

(Perm req)

Prerequisite: permission of department.

**Contact department for information to register for this course.**

**HIST619F** **Special Topics in History; Making Public History: Behind the Scenes at the National Museum of American History**

Students will be immersed in the hands-on work of public history. Understand the origins of museums and other modes of public engagement with historical artifacts and research, and learn essential skills ranging from design and content development to label writing, visitor studies, and grant writing. NOTE: Some class sessions will meet on-site at the National Museum of American History. See syllabus for meeting schedule.

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|---|---|---|
| 0101 | Kenneth Cohen<br>F 2:00pm - 4:30pm<br>Class time/details on ELMs | Seats (Total: 7)<br>TLF 2100<br>ONLINE |

**HIST619G** **Special Topics in History; Slavery, Freedom, and Citizenship: Readings in Nineteenth Century United States History**

Focused on readings that cover the creation and remaking of slavery, freedom, and citizenship during the nineteenth century, this seminar explores key questions regarding labor, law, and politics in the United States.

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| 0101 | Christopher Bonner<br>Tu 3:30pm - 6:00pm | Seats (Total: 12)<br>TLF 2108 |

**HIST638G** **Special Topics in History; Readings in Race and Migration**

*Special Topics in History.*

Migration is one of the most widespread of human experiences yet generates tremendous conflicts and contradictions in constructions of identities, communities, and inequalities of power. Perhaps the chief systems of differentiation troubled by migration are those of racial categorizations and nation-state formations. This reading seminar guides graduate students to develop a vocabulary and conceptual understanding for migration studies and its interventions into nation-based conceptual frameworks through transnational, diasporic, critical race, and ethnic studies projects.

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| 0101 | Madeline Hsu<br>Th 3:30pm - 6:00pm | Seats (Total: 12)<br>TLF 2100 |

**HIST638I** **Special Topics in History; Readings in American Capitalism**

*Special Topics in History.*

Key interpretations from the rise of capitalism in British North America through contemporary financialization and globalization, with special emphasis on capitalism s emergence, the role of slavery, the state, and corporations in nineteenth century economic expansion, the rise and impact of big business, the Great Depression and New Deal Order, postwar consumerism, 1970s economic stasis, and neoliberalism.

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| 0101 | David Sicilia<br>M 6:00pm - 8:30pm | Seats (Total: 12)<br>TLF 2100 |

**HIST638Q** **Special Topics in History; Sufism: History, Literature, and Politics of Islamic Mysticism**

*Special Topics in History.*

Cross-listed with PERS498T, PERS689T, CMLT498T, HIST428Q, and RELS419Q. Credit only granted for PERS498T, PERS689T, CMLT498T, HIST428Q, HIST638Q, or RELS419Q. Provides an introduction to the history, literature, and politics of Sufism the Islamic "mystical" mode of piety from its origins to the modern period.

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|---|---|---|
| 0101 | Matthew Miller<br>Tu 12:30pm - 3:15pm | Seats (Total: 25)<br>JMZ 0125 |

**HIST639Z** **Special Topics in History; Issues and Themes in Soviet History**

*Special Topics in History.*

An exploration of the major issues and themes in Soviet history (1917-1991). Focus on classic works, as well as consideration of new approaches and areas of interest, including the study of race and racism; environmental history; oral history and transnational history.

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| 0101 | Sarah Cameron<br>W 3:30pm - 6:00pm | Seats (Total: 12)<br>Location: TBA |

**HIST708** **Directed Independent Reading for Comprehensive Examinations I**

*Directed reading in preparation for Doctoral Comprehensive Examinations. In consultation with their advisors, students will select a number of books and articles from an approved list. Grading for the course will reflect performance on the written and oral sections of the Comprehensive Examinations.*

**Contact department for information to register for this course.**

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**HIST709** **Directed Independent Reading for Comprehensive Examinations II**

*Directed reading in preparation for Doctoral Comprehensive Examinations. In consultation with their advisors, students will select a number of books and articles from an approved list. Grading for the course will reflect performance on the written and oral sections of the Comprehensive Examinations.*

**Contact department for information to register for this course.**

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**HIST799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

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**HIST811** **Museum Scholarship Practicum**

(Perm req)

*Prerequisite: AMST856, ANTH856, or HIST810. Restriction: Permission of Museum Scholarship Program required. Cross-listed with: AMST857, ANTH857, INST787. Credit only granted for: AMST857, ANTH857, HIST811, INST728I or INST787.*

*Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.*

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| IM01 | Paul Jaeger | Seats (Total: 12) |
| | Contact instructor or department for details. | |

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**HIST819A** **Special Topics in History: Independent Research**

(Perm req)

*Individual graduate research in an area not covered by current seminar offerings. The product will be a finished research paper normally based on original materials.*

Department permission required.

**Contact department for information to register for this course.**

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**HIST819B** **Special Topics in History: Independent Research**

(Perm req)

*Individual graduate research in an area not covered by current seminar offerings. The product will be a finished research paper normally based on original materials.*

Department permission required.

**Contact department for information to register for this course.**

**HIST819O** **Special Topics in History: Independent Research; United States History: Reconstruction to the Present**

*Individual graduate research in an area not covered by current seminar offerings. The product will be a finished research paper normally based on original materials.*

Guides students step-by-step through the research and writing of an original work of historical scholarship. Students choose their own research topics, provide peer review, and deliver oral presentations of their work as well as an article-length essay.

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| 0101 | Robyn Muncy | Seats (Total: 12) |
| | Tu 6:00pm - 8:30pm | TLF 2108 |

**HIST819X** **Special Topics in History: Independent Research; Research in European History**

*Individual graduate research in an area not covered by current seminar offerings. The product will be a finished research paper normally based on original materials.*

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| 0101 | Piotr H Kosicki | Seats (Total: 12) |
| | Th 6:00pm - 8:30pm | ONLINE |

**HIST898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**HIST899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# HLSA Health Services Administration Fall 2024

**HLSA300** **Introduction to Health Policy and Services**

*Prerequisite: Must have completed or be concurrently enrolled in SPHL100 or PHSC300. Restriction: Must be in Public Health Science program; and must have earned a minimum of 60 credits. Credit only granted for: SPHL498P or HLSA300. Formerly: SPHL498P.*

*A multidimensional view of public health policy and services. Through interactive discussion of assigned readings, team-based learning, and supplementary lecture, students will learn about the nature of and development of policy, public health policy, and financing and delivery of health care services. This course will place a significant emphasis on a team-based learning approach to understanding the health care system and health care reform.*

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| 0101 | Charmaine Ivey | Seats (Total: 18) | |
| | Class time/details on ELMs | ONLINE | |
| | W 11:00am - 11:50am | SPH 0116B | Discussion |

*Restricted to College Park students in the Public Health Science major.*

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|---|---|---|---|
| 0102 | Charmaine Ivey | Seats (Total: 18) | |
| | Class time/details on ELMs<br>W 12:00pm - 12:50pm | ONLINE<br>SPH 0116B | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0103 | Charmaine Ivey | Seats (Total: 18) | |
| | Class time/details on ELMs<br>W 2:00pm - 2:50pm | ONLINE<br>SPH 0116B | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0104 | Charmaine Ivey | Seats (Total: 18) | |
| | Class time/details on ELMs<br>W 3:00pm - 3:50pm | ONLINE<br>SPH 0116B | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0105 | Charmaine Ivey | Seats (Total: 18) | |
| | Class time/details on ELMs<br>F 9:00am - 9:50am | ONLINE<br>SPH 0116B | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0106 | Charmaine Ivey | Seats (Total: 18) | |
| | Class time/details on ELMs<br>F 10:00am - 10:50am | ONLINE<br>SPH 0116B | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0107 | Charmaine Ivey | Seats (Total: 18) | |
| | Class time/details on ELMs<br>F 11:00am - 11:50am | ONLINE<br>SPH 0116B | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0108 | Charmaine Ivey | Seats (Total: 18) | |
| | Class time/details on ELMs<br>F 12:00pm - 12:50pm | ONLINE<br>SPH 0116B | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0109 | Charmaine Ivey | Seats (Total: 18) | |
| | Class time/details on ELMs<br>F 1:00pm - 1:50pm | ONLINE<br>SPH 0116B | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |

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| ESG1 | Negin Fouladi<br>M 2:00pm - 4:30pm | Seats (Total: 35)<br>BLD3 2230 |
| | *Restricted to Shady Grove students in the Public Health Science major.* | |

**HLSA484** **Redesigning Health Care: Developing a Clinic to Meet Community Needs**

*Restriction: Must have completed a minimum of 60 credits. Additional information: Selected class sessions will be on-site at local organizations such as Mona Clinic in Temple Hills, MD, HAIR Network shops in Hyattsville and the Sarvis Empowerment Cafe in Riverdale. The course also requires off-campus work at nearby locations.*

*Provides an opportunity for students to learn a key entrepreneurial skill, Human Centered Design Thinking, while helping to build, reshape, redesign and transform delivery of health care in the Mona Center, a new community center and clinic in Prince George's County. This new, modern vision for a health and wellness clinic embraces student involvement in designing, planning and contributing to innovative programs, solutions, and processes to improve the clinic's ability to meet community and patient needs by addressing the social determinants of health as well as traditional clinical health status. Students in the class will develop empathy for patients, providers and other stakeholders, define problems, select a specific problem for intervention, understand problems based on stakeholder input, ideate, reframe and suggest options to solve or address the problem, prototype solutions, test ideas, and make recommendations to inform implementation and ongoing measurement and monitoring of impact.*

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| 0101 | Stephen Thomas<br>F 10:00am - 12:30pm<br>Class time/details on ELMs | Seats (Total: 24)<br>SPH 0308<br>ONLINE |

**HLSA601** **Introduction to Health Systems**

*An overview of the U.S. health care system using an interdisciplinary perspective. Students will learn about the financing, delivery, and use of healthcare in a historical, economic, and political context. An emphasis will be given to contemporary policy issues and debates, and there will be a focus on inequality within the U.S. health system.*

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| 0102 | Merianne Spencer<br>Tu 4:00pm - 6:45pm | Seats (Total: 60)<br>SPH 1303 |
| PLH1 | Negin Fouladi<br>Class time/details on ELMs | Seats (Total: 40)<br>ONLINE |
| | *Must be in Public Health Practice and Policy, Online. Golden ID students are not eligible for this section.* | |

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|---|---|---|
| PLP1 | Negin Fouladi | Seats (Total: 30) |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Health Administration, Online. Golden ID students are not eligible for this section.* | |

**HLSA611** **Introduction to Health Equity**

*The emerging field of health equity is concerned with understanding the causes and consequences of social disparities in population health. This course is designed to expose students to the foundational issues in health equity from a variety of perspectives. Through weekly meetings and discussion, students will develop familiarity with the major literature in the field of health equity. The course is divided into three sections: (1) Understanding & Addressing Health Disparities; (2) Disparity Populations; and (3) Solutions in Health Equity. Students will gain understanding of the dimensions and sources of health inequality, including race/ethnicity, socioeconomic status, gender, nativity, and sexual minority status. Current policy debates and recent policy developments related to health equity are also briefly discussed.*

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|---|---|---|
| 0101 | Maushami DeSoto | Seats (Total: 25) |
| | Th 4:00pm - 6:45pm | ONLINE |

**HLSA688** **Independent Study**

(Perm req)

*Master or doctoral students who desire to pursue special research problems under the direction of a faculty memeber of the department may register for 1-6 hours of credit under this number.*

**Contact department for information to register for this course.**

**HLSA702** **Policy and Politics of Health**

*Organizational and financial components of the U.S. health care system, including social and political forces that bind the system. Advanced political analysis of the health care system, including key issues and problems.*

Although this is an online course, we will have one required in-person visit to Annapolis, Maryland to visit the state legislature organized by the instructor. In addition, there are three online synchronous Q&A sessions that students should participate in remotely and will be arranged by the instructor.

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|---|---|---|
| 0101 | Shurooq Hasan | Seats (Total: 35) |
| | Class time/details on ELMs | ONLINE |

**HLSA711** **Health Economics and Analysis**

*Provides an analysis of health and health care services as economic goods. Using microeconomic theories, we will examine the behavior of health care providers, consumers, markets, and firms.*

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|---|---|---|
| 0101 | Nathan Apathy | Seats (Total: 20) |
| | M 4:00pm - 6:45pm | SPH 0305 |

**HLSA716** **Pharmaceutical Policy and Economics**

*Introduces students to policy issues in the pharmaceutical sector and economic frameworks that may be used to design and evaluate relevant policies.*

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|---|---|---|
| 0101 | Xuanzi Qin | Seats (Total: 20) |
| | W 4:00pm - 6:45pm | ATL 2330 |

**HLSA720** **Health Law and Ethics**

*The legal system helps determine the relationships prevailing among individuals, institutions and governments by setting out the rights, duties and powers of the various parties. This course will look at some of the more important concepts the law uses within the context of health services and public health.*

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|---|---|---|
| 0101 | Nina Omeaku | Seats (Total: 25) |
| | Class time/details on ELMs | ONLINE |

**HLSA727** **Causal Inference in Health Services Research**

*Prerequisite: HLSA725 or permission of instructor.*

*An overview of the conceptual and empirical tools used to infer causation in health and health care research. Advantages and limitations of experimental and quasi-experimental designs in health services research are discussed and students gain experience through applied exercises.*

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|---|---|---|
| 0101 | Michel Boudreaux | Seats (Total: 20) |
| | W 4:00pm - 6:45pm | SPH 0305 |

**HLSA730** **Healthcare Human Resources**

*Provides an introduction to the management of human resources in the healthcare setting using basic human resources management doctrine common to all industries. Content includes principles and methods of personnel including employment, recruitment, selection, retention, training and development, compensation including wage and salary administration performance appraisal, job analysis and labor relations.*

**Contact department for information to register for this course.**

**HLSA742** **Quantitative Methods in Healthcare Administration**

*Restriction: Must be in the Master of Health Administration program.*

*The goal of this course is to give students the background needed to interpret and critique statistical methods and results encountered in the healthcare administrative field. In addition, this course will help students develop skills to conduct basic statistical analyses, become familiar with advanced functions in Excel, and acquire the ability to recognize, communicate, and answer health services related research questions.*

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|---|---|---|
| PLP1 | Rick Sperling | Seats (Total: 35) |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Health Administration, Online. Golden ID students are not eligible for this section.* | |

**HLSA745** **Public Health Practice and Management**

*Examines the relationship of practice and management in performing essential public health services on local, state and national levels.*

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|---|---|---|
| PLH1 | Portia Buchongo | Seats (Total: 35) |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Public Health Practice and Policy, Online. Golden ID students are not eligible for this section.* | |

**HLSA750** **Healthcare Management Information Systems**

*Provides a background and overview of the analysis, design, evaluation, selection, installation, use, and mangement of information systems in health care settings. Students will review the information management function and value of information and the role of information technology in the provision of high quality care and management decision making. Details on computer hardware, software, networking, and telecommunications sufficient for understanding of concepts relevant to health care managers and staff will be addressed.*

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|---|---|---|
| 0501 | Melvin Seale | Seats (Total: 20) |
| | Class time/details on ELMs | ONLINE |
| PLP1 | Melvin Seale | Seats (Total: 35) |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Health Administration, Online. Golden ID students are not eligible for this section.* | |

**HLSA765** **Dissertation Proposal Development Seminar**

*Recommended: Completed all coursework related to one's dissertation topic; and identified in collaboration with one's dissertation advisor a topic area and potential data set. Restriction: Must be in Health Services Ph.D. (Doctoral) program; or permission of instructor. And must have passed departmental qualifying exam.*

*Designed to support doctoral students prepare their dissertation proposal and oral presentation. The course is structured around a literature synthesis and development of a modified AHRQ R36 grant application which includes developing a research question and hypotheses, a conceptual model, specific aims, background and significance, and research strategy. The importance of communicating complex ideas through oral and written forms will be emphasized.*

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| 0101 | Jie Chen<br>Th 4:00pm - 6:45pm | Seats (Total: 15)<br>SPH 0303 |

**HLSA770** **Continuous Quality Improvement in Healthcare**

*Designed for the health care professional or administrator involved in quality assurance in health care. Course includes historical beginnings, state-of-the-art, voluntary, governmental efforts, and tools to promote quality assurance.*

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|---|---|---|
| 0101 | Priscilla Novak<br>Tu 7:00pm - 9:45pm | Seats (Total: 20)<br>SPH 0305 |
| PLP1 | Lauren Edelstein<br>Class time/details on ELMs<br>*Must be in Health Administration, Online. Golden ID students are not eligible for this section.* | Seats (Total: 35)<br>ONLINE |

**HLSA772** **Healthcare Leadership and Communications**

*Health care administrators rely on transformational leadership skills and insights to help their organizations rise to the social financial, public health, and technological challenges of the future. Students will assess and develop their leadership strengths, apply key leadership communication principles, and critically analyze relevent leadership models, exploring their utility in addressing key leadership issues in health care organizations. An underlying theme will be the identification of core values involved in health care delivery, integration of those values in personal and organizational missions, and effective communication to stakeholders.*

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|---|---|---|
| PLH1 | Sherry Maykrantz<br>Class time/details on ELMs<br>*Must be in Public Health Practice and Policy, Online. Golden ID students are not eligible for this section.* | Seats (Total: 25)<br>ONLINE |
| PLP1 | Sherry Maykrantz<br>Class time/details on ELMs<br>*Must be in Health Administration, Online. Golden ID students are not eligible for this section.* | Seats (Total: 25)<br>ONLINE |

**HLSA775** **Health Services and Policy Research Methods**

*Restriction: Must be in a major in SPHL-School of Public Health; or permission of instructor.*

*Survey of health services and policy research methods, including conceptualization, measurement, survey sampling, literature review, different research designs, causal inference, data analysis, and interpretation of basic statistics. This is an introductory course in research methods designed for master's students in the School of Public Health.*

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|---|---|---|
| 0101 | Dahai Yue | Seats (Total: 25) |
| | Th 4:00pm - 6:45pm | SPH 1303 |

**HLSA778** **Practical Experience in Public Health**

*Practical experience providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the experience will depend upon the student's background and career goals.*

Internship and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the internship will depend upon the student's background and career goals.

**Contact department for information to register for this course.**

**HLSA786** **Capstone Project in Public Health**

(Perm req)

*Prerequisite: Permission of SPHL-Health Services Administration department.*

*Capstone experience provding opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.*

**Contact department for information to register for this course.**

**HLSA799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**HLSA898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**HLSA899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# HLSC Integrated Life Sciences Fall 2024

**HLSC100** **Students in the University: Integrated Life Sciences**

*Restriction: Must be in the Honors College Integrated Life Sciences program. Credit only granted for: EDCP108O, HLSC100, HONR100, or UNIV100H.*

*In a small classroom setting, Integrated Life Sciences students learn about academic resources on and off campus.*

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|---|---|---|
| 0101 | Jalah Townsend | Seats (Total: 25) |
| | Tu 2:00pm - 3:15pm | LPA 0100 |

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|---|---|---|---|
| 0102 | Jalah Townsend<br>W 2:00pm - 3:15pm | Seats (Total: 25)<br>LPA 0100 | |
| 0103 | Jalah Townsend<br>Th 2:00pm - 3:15pm | Seats (Total: 25)<br>LPA 0100 | |
| 0104 | Jalah Townsend<br>F 2:00pm - 3:15pm | Seats (Total: 22)<br>LPA 0100 | |

**HLSC280** **Integrative and Quantitative Concepts in Biology**

*Prerequisite: BSCI170. Restriction: Must be in the Honors College Integrated Life Sciences program. Credit only granted for: HLSC208 or HLSC280. Formerly: HLSC208.*

*Designed for entering students enrolled in the Honors College Integrated Life Sciences (ILS) program, this course uses an active learning approach to emphasize inquiry, critical thinking, quantitative reasoning, and hands-on data analysis. This course will cover a variety of bioinformatic related topics, including genome assembly and scaffolding, sequence alignment algorithms, epigenetics, a bioinformatic examination of the central dogma in molecular biology, gene finding, proteomic analysis, the evolution of molecules, cells and organisms, molecular switches, and biological networks.*

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|---|---|---|---|
| 0101 | Najib El-Sayed<br>MW 9:00am - 9:50am<br>F 8:00am - 9:50am | Seats (Total: 24)<br>IRB 1116<br>ONLINE | <br><br>Lab |
| 0102 | Najib El-Sayed<br>MW 9:00am - 9:50am<br>F 8:00am - 9:50am | Seats (Total: 24)<br>IRB 1116<br>PLS 1121 | <br><br>Lab |
| 0103 | Najib El-Sayed<br>MW 9:00am - 9:50am<br>F 1:00pm - 2:50pm | Seats (Total: 24)<br>IRB 1116<br>PLS 1121 | <br><br>Lab |
| 0104 | Najib El-Sayed<br>MW 9:00am - 9:50am<br>F 3:00pm - 4:50pm | Seats (Total: 24)<br>IRB 1116<br>PLS 1121 | <br><br>Lab |

**HLSC329** **Teaching Practicum in the Life Sciences**

(Perm req)

*A guide and support for the undergraduate teaching assistants (UTAs) in the Integrated Life Sciences (ILS) honors living-learning program. UTAs will develop a greater understanding of teaching and learning in the life sciences, with a focus on the academic values of ILS, by exploring education research and theory, discussing learning strategies and techniques, and reflecting on their practice. Students take this course while serving as a undergraduate teaching assistant in the Integrated Life Sciences courses.*

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|---|---|---|---|
| 0101 | Sabrina Kramer | Seats (Total: 12) | |
| | TBA | LPA 1125 | |

**HLSC374** **Mathematical Modeling in Biology**

*Prerequisite: MATH131, MATH136, or MATH141. Cross-listed with: BSCI374. Credit only granted for: BSCI374, BSCI474, or HLSC374. Formerly: BSCI474. Additional information: The HLSC374 version of this course is restricted to students in the Honors College Integrated Life Sciences program.*

*Students will learn empowering mathematical techniques through the understanding of biological models. Models are chosen from a variety of biological disciplines. Mathematical skills that will be developed along the way include: solving non-linear difference equations, eigenvector analysis, and the implementation of these algorithms as computer models.*

(Sponsoring Dept.: BIOL) Applies as an upper-level laboratory course to Biological Sciences Specialization Areas: CEBG, ECEV, GENB, and PHNB. Students must pay a $40.00 laboratory materials fee.

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|---|---|---|---|
| 0101 | Jonathan Simon | Seats (Total: 5) | |
| | TuTh 9:30am - 10:45am | CCC 1111 | |
| | M 1:00pm - 3:50pm | CCC 1111 | Lab |

# HLTH Health Fall 2024

**HLTH124** **Introduction to Behavioral and Community Health**

*Restriction: Must be in a major within the SPHL-Behavioral & Community Health department.*

*Required of first semester Community Health majors to expose them to introductory-level concepts within the field of behavioral and community health as well as the Community Health degree program. Includes discussion on the delivery of behavioral and community health at the local, state, national, and global levels; career opportunities in the diverse sectors of the community health field; undergraduate programmatic information; and strategies for student success.*

This is 8 week class that ends 10/17/24.

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|---|---|---|---|
| 0101 | M Reynolds | Seats (Total: 40) | |
| | M 1:00pm - 1:50pm | SPH 1302 | |
| | Class time/details on ELMs | ONLINE | |

**HLTH140** **Personal and Community Health**

*Meaning and significance of physical, mental and social health as related to the individual and to society; important phases of national health problems; constructive methods of promoting health of the individual and the community.*

Cross-listed with HLTH140H. Credit granted for HLTH140 or HLTH140H.

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|---|---|---|
| 0101 | James Butler<br>MW 2:00pm - 3:15pm | Seats (Total: 150)<br>ESJ 2204 |

**HLTH140H** **Personal and Community Health**

(Perm req)

*Meaning and significance of physical, mental and social health as related to the individual and to society; important phases of national health problems; constructive methods of promoting health of the individual and the community.*

Cross-listed with HLTH140. Credit granted for HLTH140 or HLTH140H.

| | | |
|---|---|---|
| 0101 | James Butler<br>MW 2:00pm - 3:15pm | Seats (Total: 150)<br>ESJ 2204 |

**HLTH200** **Introduction to Research in Community Health**

*Restriction: Must be in a major within the SPHL-Behavioral and Community Health department.*

*An overview of specific components and steps involved in the community health research process. Content includes, foundations of research, sampling, measurement design, and analysis in a community context.*

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|---|---|---|
| 0101 | Dina Borzekowski<br>MWF 2:00pm - 2:50pm | Seats (Total: 40)<br>SPH 0308 |

**HLTH230** **Introduction to Health Behavior**

*Psychological, social psychological, and sociological approaches to the following health areas: development of health attitudes and behavior, patient-provider interaction and the organization of health care.*

Restricted to Majors or non-majors with less than or equal to 45 credits.

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|---|---|---|
| 0101 | Reva Datar<br>Tu 9:30am - 10:45am<br>Th 9:30am - 10:45am | Seats (Total: 70)<br>ONLINE<br>CHE 2108 |

**HLTH234** **Global Health Messages: Understanding Exposure & Impact**

*Restriction: Must not be in the Community Health program.*

*Using a global perspective, this course teaches students to be critical consumers of current and historical health communication interventions. It also provides students with the skills to develop media interventions that target specific and general populations. Students will discover the array of diverse media messages that influence the health and well-being of individuals and communities.*

| | | |
|---|---|---|
| 0101 | Aysha Jawed | Seats (Total: 40) |
| | Class time/details on ELMs | ONLINE |

**HLTH234H** **Global Health Messages: Understanding Exposure & Impact**

(Perm req)

*Restriction: Must not be in the Community Health program.*

*Using a global perspective, this course teaches students to be critical consumers of current and historical health communication interventions. It also provides students with the skills to develop media interventions that target specific and general populations. Students will discover the array of diverse media messages that influence the health and well-being of individuals and communities.*

| | | |
|---|---|---|
| 0101 | Aysha Jawed | Seats (Total: 40) |
| | Class time/details on ELMs | ONLINE |

**HLTH264** **Tweets & Likes: Digital Health & Social Media**

*Restriction: Must not be in the Community Health program.*

*Examines the current and potential use of digital health and social media to influence public health. Provides an overview of knowledge, skills and terminology necessary to optimize the effectiveness of these technologies to contribute to the enhancement of individual and community health.*

Restricted to non-community health majors.

| | | |
|---|---|---|
| 0101 | Bryan Shannon | Seats (Total: 40) |
| | Class time/details on ELMs | ONLINE |

**HLTH264H** **Tweets & Likes: Digital Health & Social Media**

(Perm req)

*Restriction: Must not be in the Community Health program.*

*Examines the current and potential use of digital health and social media to influence public health. Provides an overview of knowledge, skills and terminology necessary to optimize the effectiveness of these technologies to contribute to the enhancement of individual and community health.*

| | | |
|---|---|---|
| 0101 | Bryan Shannon | Seats (Total: 5) |
| | Class time/details on ELMs | ONLINE |

**HLTH285** **Controlling Stress and Tension**

*Health problems related to stress and tension. Analysis of causative psychosocial stressors and intervening physiological mechanisms. Emphasis on prevention and control of stress through techniques such as biofeedback, meditation and neuromuscular relaxation.*

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|---|---|---|
| 0101 | M Reynolds<br>TuTh 12:30pm - 1:45pm | Seats (Total: 100)<br>SPH 1312 |

**HLTH285H** **Controlling Stress and Tension**

(Perm req)

*Health problems related to stress and tension. Analysis of causative psychosocial stressors and intervening physiological mechanisms. Emphasis on prevention and control of stress through techniques such as biofeedback, meditation and neuromuscular relaxation.*

| | | |
|---|---|---|
| 0101 | M Reynolds<br>TuTh 12:30pm - 1:45pm | Seats (Total: 100)<br>SPH 1312 |

**HLTH289** **Topical Investigations**

(Perm req)

*Independent study by an individual student or an experimental course in special areas of knowledge not covered by regularly scheduled courses.*

**Contact department for information to register for this course.**

**HLTH292** **Community Health Engagement**

*Restriction: Must not be in Community Health program.*

*An exploration and application of basic community health concepts. An integral part of the course is service learning, that includes evaluating, planning and implementing a community health program with a local community partner.*

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|---|---|---|
| 0101 | Hector Alcala<br>TuTh 2:00pm - 3:15pm | Seats (Total: 40)<br>SPH 1302 |

**HLTH302** **Methods of Community Health Assessment**

*Prerequisite: Minimum grade of C- in HLTH200 and EPIB301. Restriction: Must be in a major within the SPHL-Community Health Department.*

*Examination of research and evaluation tools that can be applied to community health promotion. Includes the application of qualitative research methods, community needs and strengths assessments, asset mapping, and monitoring and evaluating process, outcome and impact evaluation.*

| | | |
|---|---|---|
| 0101 | Swati Sah<br>TuTh 9:30am - 10:45am | Seats (Total: 35)<br>SPH 1301 |

**HLTH302H** **Methods of Community Health Assessment**

(Perm req)

*Prerequisite: Minimum grade of C- in HLTH200 and EPIB301. Restriction: Must be in a major within the SPHL-Community Health Department.*

*Examination of research and evaluation tools that can be applied to community health promotion. Includes the application of qualitative research methods, community needs and strengths assessments, asset mapping, and monitoring and evaluating process, outcome and impact evaluation.*

| | | |
|---|---|---|
| 0101 | Swati Sah | Seats (Total: 5) |
| | TuTh 9:30am - 10:45am | SPH 1301 |

**HLTH306** **Macro Level Influences on Community Health**

*Prerequisite: Minimum grade of C- in HLTH124. Restriction: Must be in a major within the SPHL-Behavioral & Community Health department.*

*An examination of the effects and influences of policy decisions at the local, state and national levels on community health delivery. Historical and contemporary policy issues will be included with a focus on how the policies have impacted community organizations and the overall health of communities.*

| | | |
|---|---|---|
| 0101 | Sharifah Holder | Seats (Total: 35) |
| | Tu 12:30pm - 1:45pm<br>Th 12:30pm - 1:45pm | ONLINE<br>SPH 0308 |

**HLTH306H** **Macro Level Influences on Community Health**

(Perm req)

*Prerequisite: Minimum grade of C- in HLTH124. Restriction: Must be in a major within the SPHL-Behavioral & Community Health department.*

*An examination of the effects and influences of policy decisions at the local, state and national levels on community health delivery. Historical and contemporary policy issues will be included with a focus on how the policies have impacted community organizations and the overall health of communities.*

| | | |
|---|---|---|
| 0101 | Sharifah Holder | Seats (Total: 5) |
| | Tu 12:30pm - 1:45pm<br>Th 12:30pm - 1:45pm | ONLINE<br>SPH 0308 |

**HLTH364** **Social Media & Digital Tools for Community & Public Health**

*Prerequisite: Completion of HLTH230 with a C- or higher. Restriction: Must be in a major within the SPHL-Behavioral and Community Health department; Restricted to majors who entered the program in Fall 2018 or later.*

*Examination of the characteristics and uses of media platforms and digital technologies to expand the capability to identify and reduce community and public health risks at all levels of prevention. Also considered will be the potential threats these new media can play on individual choice, privacy, confidentiality, and social influence -- which themselves can pose health threats to community and public health.*

| | | | |
|---|---|---|---|
| 0101 | Sandra Saperstein<br>TuTh 2:00pm - 3:15pm | Seats (Total: 25)<br>SPH 0308 | |
| 0201 | Devlon Jackson<br>TuTh 2:00pm - 3:15pm | Seats (Total: 25)<br>Location: TBA | |

**HLTH364H** **Social Media & Digital Tools for Community & Public Health**

(Perm req)

*Prerequisite: Completion of HLTH230 with a C- or higher. Restriction: Must be in a major within the SPHL-Behavioral and Community Health department; Restricted to majors who entered the program in Fall 2018 or later.*

*Examination of the characteristics and uses of media platforms and digital technologies to expand the capability to identify and reduce community and public health risks at all levels of prevention. Also considered will be the potential threats these new media can play on individual choice, privacy, confidentiality, and social influence -- which themselves can pose health threats to community and public health.*

| | | | |
|---|---|---|---|
| 0101 | Sandra Saperstein<br>TuTh 2:00pm - 3:15pm | Seats (Total: 5)<br>SPH 0308 | |
| 0201 | Devlon Jackson<br>TuTh 2:00pm - 3:15pm | Seats (Total: 5)<br>Location: TBA | |

**HLTH366** **Behavioral and Community Issues in Public Health**

*Prerequisite: HLTH130, HLTH230, PSYC100, SOCY100, SOCY105, or ANTH260. Restriction: Must be in Public Health Science program; or permission of SPHL-Behavioral & Community Health department. And must have earned a minimum of 45 credits. Additional information: This course will initially be restricted to Public Health Science (PHSC) majors, but could ultimately be opened to other majors, particularly those in HLTH.*

*The exploration of how social and behavioral science theories and public health concepts and methods can be applied to both the health-illness experience and community interventions.*

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|---|---|---|---|
| 0101 | Evelyn King-Marshall<br>MW 2:00pm - 2:50pm<br>Tu 9:30am - 10:20am | Seats (Total: 24)<br>ESJ 1224<br>SPH 0121 | Discussion |
| | *Restricted to Public Health Science students at College Park.* | | |

| | | | |
|---|---|---|---|
| 0102 | Evelyn King-Marshall<br>MW 2:00pm - 2:50pm<br>Tu 12:30pm - 1:20pm | Seats (Total: 27)<br>ESJ 1224<br>SPH 0121 | Discussion |
| | *Restricted to Public Health Science students at College Park.* | | |
| 0103 | Evelyn King-Marshall<br>MW 2:00pm - 2:50pm<br>W 10:00am - 10:50am | Seats (Total: 27)<br>ESJ 1224<br>SPH 0121 | Discussion |
| | *Restricted to Public Health Science students at College Park.* | | |
| 0104 | Evelyn King-Marshall<br>MW 2:00pm - 2:50pm<br>W 11:00am - 11:50am | Seats (Total: 24)<br>ESJ 1224<br>SPH 0121 | Discussion |
| | *Restricted to Public Health Science students at College Park.* | | |
| 0105 | Evelyn King-Marshall<br>MW 2:00pm - 2:50pm<br>W 12:00pm - 12:50pm | Seats (Total: 24)<br>ESJ 1224<br>SPH 0121 | Discussion |
| | *Restricted to Public Health Science students at College Park.* | | |
| 0106 | Evelyn King-Marshall<br>MW 2:00pm - 2:50pm<br>Th 9:30am - 10:20am | Seats (Total: 24)<br>ESJ 1224<br>SPH 0121 | Discussion |
| | *Restricted to Public Health Science students at College Park.* | | |

**HLTH377** **Human Sexuality**

*The biological and developmental aspects of human sexuality; the psychological and emotional aspects of sexual behavior; sexual identity; the historical, cultural, social, linguistic, legal and moral forces affecting sexual issues; the importance of communication, disclosure and intimacy in interpersonal relationships; and research trends in the area of human sexuality.*

Cross-listed with HLTH377H. Credit granted for HLTH377 or HLTH377H.

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|---|---|---|---|
| 0101 | Jenna Messman<br>Class time/details on ELMs | Seats (Total: 200)<br>ONLINE | |

**HLTH377H** **Human Sexuality**

(Perm req)

*The biological and developmental aspects of human sexuality; the psychological and emotional aspects of sexual behavior; sexual identity; the historical, cultural, social, linguistic, legal and moral forces affecting sexual issues; the importance of communication, disclosure and intimacy in interpersonal relationships; and research trends in the area of human sexuality.*

Cross-listed with HLTH377. Credit granted for HLTH377 or HLTH377H.

| | | |
|---|---|---|
| 0101 | Jenna Messman | Seats (Total: 200) |
| | Class time/details on ELMs | ONLINE |

**HLTH386** **Experiential Learning**

(Perm req)

*Prerequisite: Permission of SPHL-Behavioral & Community Health department. Restriction: Junior standing or higher.*

**Contact department for information to register for this course.**

**HLTH389** **Topical Investigations**

(Perm req)

*Independent study by an individual student or an experimental course in special areas of knowledge not covered by regularly scheduled courses.*

**Contact department for information to register for this course.**

**HLTH391** **Making a Difference: Applying Community Health**

(Perm req)

*Prerequisite: SPHL100, HLTH124, HLTH140, HLTH200, HLTH230, EPIB301, EPIB315, BSCI170, BSCI201, and HLTH302. Students must have completed or be concurrently enrolled in HLTH364. Corequisite: HLTH490. Restriction: Must be in a major within the SPHL-Behavioral and Community Health department.*

*The exploration and application of community health concepts including theoretical models, advocacy, cultural competency, asset mapping, and needs assessment. Includes planning, implementing and evaluating a community health program with a designated community partner.*

| | | |
|---|---|---|
| 0101 | James Butler | Seats (Total: 45) |
| | MW 11:00am - 12:15pm | SPH 0308 |

**HLTH391H** **Making a Difference: Applying Community Health**

*Prerequisite: SPHL100, HLTH124, HLTH140, HLTH200, HLTH230, EPIB301, EPIB315, BSCI170, BSCI201, and HLTH302. Students must have completed or be concurrently enrolled in HLTH364. Corequisite: HLTH490. Restriction: Must be in a major within the SPHL-Behavioral and Community Health department.*

*The exploration and application of community health concepts including theoretical models, advocacy, cultural competency, asset mapping, and needs assessment. Includes planning, implementing and evaluating a community health program with a designated community partner.*

| | | |
|---|---|---|
| 0101 | James Butler | Seats (Total: 3) |
| | MW 11:00am - 12:15pm | SPH 0308 |

**HLTH399** **Community Health Field Work**

(Perm req)

*Students will gain practical experience under conditions conducive to educational and professional development. The internship is a supervised period of community/public health activities, carried out in a relevant professional organization, that emphasizes the application of theory and previous coursework.*

Prerequisite: Minimum grade of C- in HLTH124, HLTH140, and SPHL100. Restriction: Must be in Community Health program; and must have earned a minimum of 45 credits. Repeatable to 6 credits if content differs. Additional information: Students will have the opportunity to be matched with regular DBCH partners who have requested an intern for the designated semester. Most field work experiences will be off-campus. Students will gain practical experience under conditions conducive to educational and professional development. The internship is a supervised period of community/public health activities, carried out in a relevant professional organization, that emphasizes the application of theory and previous coursework.

**Contact department for information to register for this course.**

**HLTH410** **Honors Seminar**

(Perm req)

*Prerequisite: HLTH200; and must have completed 2 other courses in HLTH. Restriction: Minimum cumulative GPA of 3.5; and must have completed 45 credits before applying.*

*Undergraduate majors with a strong academic record are provided the opportunity to engage in challenging educational experiences related to the social and behavioral aspects of public health. Students will learn the skills and knowledge to develop, propose, defend, and complete an honors thesis or honors project.*

| | | |
|---|---|---|
| 0101 | Kirsten Stoebenau | Seats (Total: 12) |
| | M 12:30pm - 2:50pm | SPH 0301 |
| | Class time/details on ELMs | ONLINE |

**HLTH420** **Effective Strategies for Public Health Practice**

(Perm req)

*Prerequisite: Minimum grade of C- in HLTH140 and HLTH230 . Restriction: Must be in a major within the SPHL-Behavioral and Community Health department.*

*The purpose of this course is to present the interrelationships of curriculum planning, methodology and the selection and use of successful public health presentation strategies. Special problems associated with public health presentations are discussed, and students become familiar with a variety of resources as well as with planning for and implementing demonstration presentations.*

| | | |
|---|---|---|
| 0101 | M Reynolds<br>TuTh 9:30am - 10:45am | Seats (Total: 23)<br>SPH 0303 |
| 0201 | M Reynolds<br>TuTh 11:00am - 12:15pm | Seats (Total: 23)<br>SPH 0303 |

**HLTH431** **Health Literacy in Action**

*Recommended: HLTH 371; or equivalent. Repeatable to 0 credit. Credit only granted for: HLTH431 or HLTH498L. Formerly: HLTH498L.*

*This course introduces the concept of health literacy and develops the knowledge and skills to understand the field and engage productively about health literacy with healthcare providers, systems, and policy makers. The class explores diverse perspectives about health information and communication, and different pathways and strategies to help create the conditions for more informed and engaged individuals and communities.*

| | | |
|---|---|---|
| 0101 | Catherine Maybury<br>TuTh 2:00pm - 3:15pm<br>*Restricted to students in the Behavioral and Community Health major.* | Seats (Total: 10)<br>SPH 0302 |
| 0201 | Catherine Maybury<br>TuTh 2:00pm - 3:15pm<br>*Restricted to College Park students in the Public Health Science major.* | Seats (Total: 25)<br>SPH 0302 |

**HLTH431H** **Health Literacy in Action**

(Perm req)

*Recommended: HLTH 371; or equivalent. Repeatable to 0 credit. Credit only granted for: HLTH431 or HLTH498L. Formerly: HLTH498L.*

*This course introduces the concept of health literacy and develops the knowledge and skills to understand the field and engage productively about health literacy with healthcare providers, systems, and policy makers. The class explores diverse perspectives about health information and communication, and different pathways and strategies to help create the conditions for more informed and engaged individuals and communities.*

| | | |
|---|---|---|
| 0101 | Catherine Maybury<br>TuTh 2:00pm - 3:15pm | Seats (Total: 5)<br>SPH 0302 |

**HLTH434** **Introduction to Public Health Informatics**

*Restriction: Must be in one of the following programs (Community Health; Public Health Science) ; and must have earned a minimum of 60 credits. Credit only granted for: HLTH434 or HLTH498E. Formerly: HLTH498E.*

*Provides an overview of the field of public health informatics and the influence of technology on the public's health and well-being. Emphasizes the application of various technologies and computer/internet applications to support public health research and practice, including strategies to address new and emerging threats.*

| | | |
|---|---|---|
| 0101 | Sandra Saperstein<br>W 4:00pm - 6:45pm<br>*Restriction: Must be a major in Behavioral and Community Health department.* | Seats (Total: 11)<br>SPH 1302 |
| 0201 | Sandra Saperstein<br>W 4:00pm - 6:45pm<br>*Restriction: Must be a Public Health Science major.* | Seats (Total: 29)<br>SPH 1302 |

**HLTH434H** **Introduction to Public Health Informatics**

(Perm req)

*Restriction: Must be in one of the following programs (Community Health; Public Health Science) ; and must have earned a minimum of 60 credits. Credit only granted for: HLTH434 or HLTH498E. Formerly: HLTH498E.*

*Provides an overview of the field of public health informatics and the influence of technology on the public's health and well-being. Emphasizes the application of various technologies and computer/internet applications to support public health research and practice, including strategies to address new and emerging threats.*

| | | |
|---|---|---|
| 0101 | Sandra Saperstein<br>W 4:00pm - 6:45pm | Seats (Total: 5)<br>SPH 1302 |

**HLTH489** **Field Laboratory Projects and Workshop**

(Perm req)

*A course designed to meet the needs of persons in the field with respect to workshop and research projects in special areas of knowledge not covered by regularly structured courses.*

**Contact department for information to register for this course.**

**HLTH490** **Professional Preparation in Community Health**

(Perm req)

*Prerequisite: Minimum grade of C- in EPIB301, EPIB315, SPHL100, HLTH124, HLTH140, HLTH200, HLTH230, HLTH302, BSCI170, BSCI171, and BSCI201; and students must have completed or be concurrently enrolled in HLTH364. Corequisite: HLTH391. Restriction: Must be in a major within the Behavioral and Community Health department.*

*The development of skills necessary for joining the public health work force post-graduation, as well as assistance in obtaining an appropriate internship that will serve as a final semester, capstone experience. Students will be exposed to various relevant professional experiences, and will be afforded the opportunity to strengthen their own individual skills by selecting from a menu of skills-based learning modules that best suit their perceived needs.*

| | | |
|---|---|---|
| 0101 | Alexis Hunter<br>TuTh 9:30am - 10:45am | Seats (Total: 23)<br>SPH 0305 |
| 0201 | Alexis Hunter<br>TuTh 11:00am - 12:15pm | Seats (Total: 23)<br>SPH 0305 |

**HLTH490H** **Professional Preparation in Community Health**

(Perm req)

*Prerequisite: Minimum grade of C- in EPIB301, EPIB315, SPHL100, HLTH124, HLTH140, HLTH200, HLTH230, HLTH302, BSCI170, BSCI171, and BSCI201; and students must have completed or be concurrently enrolled in HLTH364. Corequisite: HLTH391. Restriction: Must be in a major within the Behavioral and Community Health department.*

*The development of skills necessary for joining the public health work force post-graduation, as well as assistance in obtaining an appropriate internship that will serve as a final semester, capstone experience. Students will be exposed to various relevant professional experiences, and will be afforded the opportunity to strengthen their own individual skills by selecting from a menu of skills-based learning modules that best suit their perceived needs.*

| | | |
|---|---|---|
| 0101 | Alexis Hunter<br>TuTh 9:30am - 10:45am | Seats (Total: 3)<br>SPH 0305 |
| 0201 | Alexis Hunter<br>TuTh 11:00am - 12:15pm | Seats (Total: 3)<br>SPH 0305 |

**HLTH491** **Community Health Internship**

(Perm req)

*Prerequisite: Minimum grade of C- in HLTH420 and HLTH490. Restriction: Must have completed all program requirements and be in the last semester of the Community Health degree program.*

*Integrating theory with practice in a community health setting.*

| | | |
|---|---|---|
| 0101 | Tracy Kennedy<br>Contact instructor or department for details.<br>Contact instructor or department for details. | Seats (Total: 40) |

**HLTH492** **BS/MPH Community Health Internship**

*Prerequisite: Minimum grade of C- in HLTH490. Restriction: Must be a Community Health major who has been admitted to the combined BS/MPH degree program.*

*Integrating theory with practice in a community health setting.*

| | | |
|---|---|---|
| 0101 | Tracy Kennedy<br>Contact instructor or department for details. | Seats (Total: 10) |

**HLTH609** **Public Health Journal Club**

*Includes discussion of recent literature from leading peer-reviewed journals on a specific psychosocial construct and health outcome, with students presenting two articles during the semester. The purpose of this course is to read and consider health constructs and outcomes from a multidisciplinary perspective.*

| | | |
|---|---|---|
| 0101 | Dina Borzekowski<br>Tu 12:00pm - 12:50pm | Seats (Total: 10)<br>SPH 1234A |

**HLTH672** **Public Health Informatics**

(Perm req)

*Restriction: Instructor permission is required for students not enrolled in a degree seeking program in the School of Public Health. Cross-listed with: EPIB672. Credit only granted for: HLTH670 or HLTH672 or EPIB672. Formerly: HLTH670.*

*A basic overview of Informatics and its application in a public health setting. The major goal is for students to understand the basic tools and building blocks needed to utilize this technology in order to improve their professional productivity*

| | | |
|---|---|---|
| 0101 | Sandra Saperstein<br>Tu 7:00pm - 9:45pm | Seats (Total: 25)<br>SPH 1301 |
| PLB1 | Aysha Jawed<br>Class time/details on ELMs | Seats (Total: 25)<br>ONLINE |
| | *Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**HLTH674** **Health Literacy**

*Recommended: Health communication, communication, journalism, literacy, or cognitive or information sciences classes. Credit only granted for: HLTH688L or HLTH674. Formerly: HLTH688L.*

*Introduction to health literacy research, practice, and skills. The course will develop students' understanding of how health literacy is both a barrier and an asset for health. We will also examine how health literacy affects a wide range of outcomes. Students will learn the basics of health literacy concepts, models, and research methods, and discuss health literacy research and evaluation in clinical, public health, and community settings. Students will study key health topics, populations, and contexts for health literacy research and practice. The course will describe professional skills necessary for effective public health communication practice and provide opportunities to practice the skills. The implications of research for public health practice, policy, and consumer/patient interventions and behavior will be integrated so that public health practitioners and researchers are prepared to address health literacy in their future work.*

| | | |
|---|---|---|
| 0101 | Cynthia Baur<br>W 4:00pm - 6:45pm | Seats (Total: 25)<br>SPH 2387F |

**HLTH688** **Special Problems in Health Education**

(Perm req)

**Contact department for information to register for this course.**

**HLTH701** **Mixed Methods in Behavioral and Community Health Research**

*Prerequisite: HLTH625 and HLTH710, or equivalent non-BCH qualitative and quantitative methods courses.*

*A discussion of major paradigms in mixed method inquiry, an overview of the process of mixed methods research, and an introduction to several mixed methods approaches, including convergent, explanatory sequential, and exploratory sequential designs.*

| | | |
|---|---|---|
| 0101 | Elizabeth Aparicio<br>M 4:00pm - 6:45pm<br>Class time/details on ELMs | Seats (Total: 15)<br>Location: TBA<br>ONLINE |

**HLTH710** **Methods and Techniques of Research**

(Perm req)

| | | |
|---|---|---|
| 0101 | Elaine Doherty<br>M 4:00pm - 6:45pm | Seats (Total: 25)<br>SPH 0303 |
| PLB1 | Azieb Kidanu<br>Class time/details on ELMs | Seats (Total: 16)<br>ONLINE |
| | *Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**HLTH712** **Applied Research Methods in Behavioral and Community Health**

(Perm req)

*Prerequisite: HLTH710.*

*Designed to build on the research skills obtained in HLTH710 and other fundamental research methods and statistics courses. Methods and problems that are commonly encountered in health education research will be discussed including examination of actual research studies. Complex behavioral research issues will be addressed with existing research data sets. With these data sets, students will develop an analytic plan and conduct data analysis.*

| | | |
|---|---|---|
| 0101 | Hector Alcala<br>M 4:00pm - 6:45pm | Seats (Total: 10)<br>SPH 0301 |

**HLTH778 Practical Experience in Public Health**

*Practical Experience seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the practical experience will depend upon the student's background and career goals.*

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|---|---|---|
| 0101 | Evelyn King-Marshall<br>Contact instructor or department for details. | Seats (Total: 10) |
| PLB1 | Evelyn King-Marshall<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE |
| | *Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**HLTH780 Community Health**

*Restriction: Must be in the Behavioral and Community Health doctoral program (BCHL) or the Master of Public Health Behavioral and Community Health concentration in-person or online program (MBCH or MBCO); and permission of Behavioral and Community Health department. Credit only granted for: HLTH740 or HLTH780.*

*Overview of public health organizations, programs, and policies, including their structure and function, and their ability to change with changing community health needs.*

| | | |
|---|---|---|
| 0101 | Meaghan McHugh<br>Tu 4:00pm - 6:45pm | Seats (Total: 25)<br>SPH 0303 |
| PLB1 | Zahra Saboori<br>Class time/details on ELMs | Seats (Total: 15)<br>ONLINE |
| | *Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**HLTH784 Guided Capstone Preparation Seminar**

*Prerequisite: Must have attended a capstone project orientation session; and must have completed or be concurrently enrolled in HLTH625, HLTH665, and HLTH710.*

*The purpose of this seminar is to guide students through the major steps and deadlines associated with developing their capstone project, which is the MPH degree culminating experience. The capstone project requires that students apply the knowledge and skills acquired during their MPH program to meet the needs of a stakeholder group or person. Some examples of needs (deliverables) include: an infographic, a website, a curriculum, a lesson plan, an app, an evaluation plan, a policy brief, etc. Some examples of stakeholders: include legislators, non-profit organizations, a faculty researcher, a government (county, state or federal) agency, etc. The project is very applied in nature and the result is a deliverable that can be used immediately by the stakeholder.*

| | | |
|---|---|---|
| 0101 | Hector Alcala<br>F 5:00pm - 5:50pm | Seats (Total: 10)<br>SPH 1234A |
| PLB1 | Hector Alcala<br>Class time/details on ELMs<br>*Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | Seats (Total: 17)<br>ONLINE |

**HLTH786** **Capstone Project in Public Health**

(Perm req)

*Prerequisite: Must have completed all required coursework; and permission of SPHL-Behavioral & Community Health department. Restriction: Must be in a major within SPHL-Behavioral & Community Health department.*

*Capstone experience providing opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.*

**Contact department for information to register for this course.**

**HLTH898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**HLTH899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# HNUH University Honors Fall 2024

**HNUH100** **Gateway Seminar**

*First-semester orientation and exploration seminar required of all UH students.*

Restricted to first-semester UH students.

| | | |
|---|---|---|
| 0101 | Christine Jones, James LaChance<br>Tu 9:30am - 10:45am | Seats (Total: 20)<br>YDH 0104A |
| 0102 | Christine Jones, James LaChance<br>Tu 11:00am - 12:15pm | Seats (Total: 20)<br>YDH 0104A |
| 0103 | Christine Jones, James LaChance<br>Th 9:30am - 10:45am | Seats (Total: 20)<br>YDH 0104A |
| 0104 | Christine Jones, James LaChance<br>Th 11:00am - 12:15pm | Seats (Total: 20)<br>YDH 0104A |
| 0105 | Christine Jones, James LaChance<br>F 9:00am - 10:15am | Seats (Total: 20)<br>YDH 0104A |
| 0106 | Christine Jones, James LaChance<br>F 12:00pm - 1:15pm | Seats (Total: 20)<br>YDH 0104A |
| 0201 | Leigha McReynolds, Christine Jones<br>M 5:30pm - 6:45pm<br>Class time/details on ELMs | Seats (Total: 15)<br>YDH 0104A<br>ONLINE |
| 0202 | Christine Jones, Leigha McReynolds<br>Tu 11:00am - 12:15pm | Seats (Total: 20)<br>YDH 0104F |
| 0203 | Leigha McReynolds, Christine Jones<br>M 5:30pm - 6:45pm<br>Class time/details on ELMs | Seats (Total: 15)<br>YDH 0104F<br>ONLINE |
| 0204 | Christine Jones, Leigha McReynolds<br>Th 11:00am - 12:15pm | Seats (Total: 20)<br>YDH 0104F |
| 0205 | Christine Jones, Leigha McReynolds<br>F 9:00am - 10:15am | Seats (Total: 20)<br>YDH 0104F |
| 0206 | Christine Jones, Leigha McReynolds<br>F 12:00pm - 1:15pm | Seats (Total: 20)<br>YDH 0104F |
| 0301 | Christine Jones, Nicole McConico<br>Tu 3:30pm - 4:45pm | Seats (Total: 20)<br>YDH 0104A |

| | | |
|---|---|---|
| 0302 | Christine Jones, Nicole McConico<br>Tu 5:00pm - 6:15pm | Seats (Total: 20)<br>YDH 0104A |
| 0303 | Christine Jones, Nicole McConico<br>Th 3:30pm - 4:45pm | Seats (Total: 20)<br>YDH 0104A |
| 0304 | Christine Jones, Nicole McConico<br>Th 5:00pm - 6:15pm | Seats (Total: 20)<br>YDH 0104A |
| 0305 | Christine Jones, Nicole McConico<br>F 10:30am - 11:45am | Seats (Total: 20)<br>YDH 0104A |
| 0306 | Christine Jones, Nicole McConico<br>F 1:30pm - 2:45pm | Seats (Total: 20)<br>YDH 0104A |
| 0401 | Christine Jones, Max Barnewitz<br>Tu 3:30pm - 4:45pm | Seats (Total: 20)<br>YDH 0104F |
| 0402 | Christine Jones, Max Barnewitz<br>Tu 5:00pm - 6:15pm | Seats (Total: 20)<br>YDH 0104F |
| 0403 | Christine Jones, Max Barnewitz<br>Th 3:30pm - 4:45pm | Seats (Total: 20)<br>YDH 0104F |
| 0404 | Max Barnewitz, Christine Jones<br>Th 5:00pm - 6:15pm | Seats (Total: 20)<br>YDH 0104F |
| 0405 | Max Barnewitz, Christine Jones<br>F 10:30am - 11:45am | Seats (Total: 20)<br>YDH 0104F |
| 0406 | Christine Jones, Max Barnewitz<br>F 1:30pm - 2:45pm | Seats (Total: 20)<br>YDH 0104F |
| 0501 | Christine Jones<br>Class time/details on ELMs<br>*Restricted to new UH internal transfer students. For permission to enro l in this class, please email Dario Middleton at Dario@umd.edu.* | Seats (Total: 10)<br>ONLINE |

**HNUH218C** **Globalizing the American Revolution**

*Cross-listed with: HIST223. Credit only granted for: HNUH218C or HIST223.*

*How is the American Revolution a creation story in the making of our multi-cultural and interconnected modern world? Consider the Declaration of Independence. When first published on July 5, 1776, it was printed by an immigrant Irishman on Dutch paper that had been brought over from England. This was the first such declaration of independence ever issued, but its ideas and forms traveled far and wide. More than 100 other declarations of independence have been issued since then. The people that declaration mobilized are similarly diverse: the American Revolution is as much the story of Creek farmers, Spanish soldiers, French slaves, Canadian fugitives, Indian tea-growers, and African statesmen as it is of the Minutemen and Sons of Liberty. In this globe-trotting class, students will be positioned to debate how the familiar story of the American Revolution changes when we place it in transnational context.*

HNUH218C is the required Big Question course in the Butterfly Effects thematic cluster. Butterfly Effects courses will be offered through Spring 2026.

| | | | |
|---|---|---|---|
| 0101 | Richard Bell<br>MW 10:00am - 10:50am<br>F 10:00am - 10:50am | Seats (Total: 20)<br>SQH 1120<br>PAC 1809 | <br><br>Discussion |
| 0102 | Richard Bell<br>MW 10:00am - 10:50am<br>F 11:00am - 11:50am | Seats (Total: 20)<br>SQH 1120<br>PAC 1809 | <br><br>Discussion |
| 0103 | Richard Bell<br>MW 10:00am - 10:50am<br>F 12:00pm - 12:50pm | Seats (Total: 20)<br>SQH 1120<br>PAC 1809 | <br><br>Discussion |

**HNUH218R** **Stealing from the Poor, Giving to the Rich: The Political Economy of Global Capitalism**

*Street names and museum exhibits are being renamed in Europe to erase the ghosts of their colonial history. Yet, this speaks of the colonial "era" as the past, when in fact it is very much our present. The economic principle driving colonialism--capitalism--encouraged an insatiable appetite for territorial acquisition, human bondage, and destruction that stole wealth, life, and joy from racialized "others" to fuel European development. We maintain and further these thefts, oppressions, and exploitations through our purchasing habits and justify them through cultural ideas and ignorance. What would it mean to undo these oppressions? What must we understand to begin this process? This course surveys colonial capitalism and its legacies in Sub-Saharan Africa, the Americas, Asia, the Middle East, and North Africa to explore how history informs the present robbing of the Global South for the Global North's development, as well as pathways towards resistance and reconciliation.*

HNUH218R is part of the Butterfly Effects thematic cluster and pairs with HNUH218C to complete the cluster. Butterfly Effects courses will be offered through Spring 2026.

| | | | |
|---|---|---|---|
| 0101 | Daniel Zipp<br>TuTh 12:30pm - 1:45pm | Seats (Total: 20)<br>YDH 0104A | |

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|---|---|---|---|
| 0201 | Daniel Zipp<br>TuTh 2:00pm - 3:15pm | Seats (Total: 20)<br>YDH 0104A | |

**HNUH228C** **The Fiction of Fact: Science as Storytelling**

*What is a fact? Science is often viewed as an unbiased, fact-based, analytical discipline. However, throughout history, science has sometimes been the most potent weapon for creating and supporting political fictions and social hierarchies. Not unlike the discipline of the humanities, the sciences practice interpretation: scientists observe behaviors, of subject or objects, and necessarily provide an interpretation of the data. But it is the recourse to the "real" that has made science so powerful in underwriting cultural constructs. Whether we observe how science is manipulated in the public sphere, or how it is practiced for good or ill, it has been used to naturalize hierarchies of race, class or gender. Through a range of materials--fiction, film, visual arts, scientific articles, public humanities and political theses - this course will explore one of the most potent cases of this phenomenon of "scientific" storytelling: the case of race.*

HNUH228C is the required Big Question course in the Science & Fiction thematic cluster. Science & Fiction courses will be offered through Spring 2026.

| | | | |
|---|---|---|---|
| 0101 | Kim Coles<br>MW 2:00pm - 2:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 30)<br>HJP 2242<br>EDU 1107 | <br><br>Discussion |
| 0102 | Kim Coles<br>MW 2:00pm - 2:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 30)<br>HJP 2242<br>EDU 1107 | <br><br>Discussion |

**HNUH228R** **The Picture of Health and Illness: Modern Medicine in Illustration**

*From prehistoric carvings, through King Tut's burial mask and Michelangelo's David, to the Lincoln Memorial and Body Worlds, images have long been used to communicate what people can and should be. After the "Scientific Revolution" in Europe, when identity was increasingly tied to biology, medical illustrations communicated theories of the ideal body and how it should, and should not, look. Doctors working in the midst of scientific revolution unequivocally tied health to race, gender, and sexuality by enlisting engravers, photographers, and printers to depict the healthy body as a European man and all others as weak, flawed, or ill. This course takes up questions about science, illustration, and identity. Can science tell us who we really are? Do pictures reveal the truth about our bodies? In this class, students will develop their own theory of how science continues to shape who we think we can be and how we might resist those limitations.*

HNUH228R is part of the Science & Fiction thematic cluster and pairs with HNUH228C to complete the cluster. Science & Fiction courses will be offered through Spring 2026.

| | | | |
|---|---|---|---|
| 0101 | Brynne McBryde<br>MW 2:30pm - 3:45pm | Seats (Total: 20)<br>YDH 0104A | |

| | | |
|---|---|---|
| 0201 | Brynne McBryde | Seats (Total: 20) |
| | MW 4:00pm - 5:15pm | YDH 0104A |

**HNUH229T** **Climate in Crisis: Socio-Environmental Sustainability**

*What does it mean to achieve sustainability and how does use of a socio-environmental lens help move the world in that direction? In this, the theory component of the Climate in Crisis track, students will develop an understanding of socio-environmental systems, what they have in common with other complex adaptive systems and the approaches used to study them. With a focus on why a socio-environmental systems approach can help illuminate the environmental, socio-cultural, economic, and intersectional dimensions of sustainability, we will explore what different disciplines bring to this complex topic and use qualitative and quantitative approaches to grapple with problems of sustainability. How do we work with stakeholders to identify the vulnerable, the equitable paths forward, and the trade-offs? Who are the winners and losers of policy decisions? In HNUH229P, students will complement the work of this course with hands-on engagement at the level of Federal policy and legislation.*

| | | |
|---|---|---|
| 0101 | Margaret Palmer | Seats (Total: 20) |
| | W 5:00pm - 7:30pm | PLS 1113 |

**HNUH238C** **Surveillant Society, Surveillant Selves**

*Do the social and individual benefits of surveillance outweigh its risks? Surveillance is a ubiquitous practice in contemporary society. Governments surveil populations; corporations surveil customers and users; and individuals surveil themselves and others. From red light cameras and doorbell security cameras to geo-tracking apps and smart appliances, surveillant practices shape 21st-century lifestyles. Many take these practices for granted as acceptable trade-offs for individual and collective benefits. Others sound the alarm on the dangers of being tracked and monitored, with concerns over individual liberty, social inequalities, and more. In this course we will debate how surveillance shapes social practices and selves. Students will draw their own conclusions about the role of surveillance in society, and what, if anything, should be done to change it.*

HNUH238C is the required Big Question course in the Surveillance thematic cluster. Surveillance courses will be offered through Spring 2026.

| | | |
|---|---|---|
| 0101 | Brian Connor | Seats (Total: 50) |
| | MWF 10:00am - 10:50am | SQH 1119 |

**HNUH238R** **Invasive: Feminist Perspectives on Power, Politics, and Ecosurveillance**

*Invasive species play a key role in 60% of plant and animal extinctions, constituting a serious threat to global biodiversity and costing over $423 billion annually. But what is at stake in the impulse to frame a species as "invasive"? What modes of watching, tracking, and surveilling emerge in the context of invasive species management? What are the material and ethical implications of these practices? As the cost of invasive species management has quadrupled every decade since 1970 and is likely to continue to increase, what alternatives exist? Reading through the lens of feminist science studies, this course asks what species movement might teach us about the possibilities and challenges of multispecies environmental ethics. Students will examine theoretical, historical, cultural, and practice-based accounts to better understand how our collective and individual actions continue to unevenly shape the biodiversity of our changing planet.*

HNUH238R is part of the Surveillance thematic cluster and pairs with HNUH238C to complete the cluster. Surveillance courses will be offered through Spring 2026.

| | | |
|---|---|---|
| 0101 | Jordan Johnson<br>MW 9:00am - 10:15am | Seats (Total: 20)<br>YDH 0104A |
| 0201 | Jordan Johnson<br>MW 10:30am - 11:45am | Seats (Total: 20)<br>YDH 0104A |

**HNUH239T** **Geopolitics of Finance: Innovation & Cross-Cultural Globalization**

*Introduces students to the creative possibilities of the global economy: cross-cultural innovation, collaborative design-driven solutions, and enduring innovation with global purchase. Covers innovations in global business that are transforming the future through an embrace of diverse cultural perspectives. Working with interactive idealized design, out-of-the-box-thinking, and strategic exploration tools, students will explore and experience relevant design to new and cross-cultural value creation. Through rapid prototyping, immersive reflections, and innovative design activities, students will experience how to translate insight into action, and action into tangible results. The evolutionary application of frameworks in this course culminates in a capstone project. This course is self-contained but paired with HNUH239P in the Geopolitics of Finance track, which explores how globalization has brought about fundamental changes to our daily lives by making the world more interdependent.*

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|---|---|---|
| 0101 | Gerald Suarez<br>MW 2:00pm - 3:15pm | Seats (Total: 20)<br>LEF 1222 |

**HNUH248C** **The Societal Impact of Artificial Intelligence**

*How will AI change society? AI is changing not only business, but the nature of society itself. This course investigates the nature of those changes and forecasts their future development. With a focus on the implications to business, including the nature of human jobs as AI does an increasing amount of work, students will debate the implications of AI through a variety of lenses. From definitions of consciousness and the potential for robots to claim rights to the gender implications of AI, we will explore its philosophical and political implications. As AI is also capital, we will interrogate what the advance of AI means to capitalists and for labor. Finally, we will enter the debate around whether AI will require more than machine learning to approximate general intelligence and whether it can truly be creative. Through the exploration of the unprecedented pitfalls and opportunities that AI represents, students will learn how best to cope with a world that is dependent on AI.*

HNUH248C is the required Big Question course in the Artificial? Intelligence? thematic cluster. Artificial? Intelligence? Courses will be offered through Spring 2026.

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| 0101 | Roland Rust | Seats (Total: 60) |
| | TuTh 2:00pm - 3:15pm | ESJ 1202 |

**HNUH248O** **We the Artificial People: How AI has Reshaped Politics**

*Artificial intelligence (AI) has had profound impacts on the modern political landscape, in the US and abroad. From political campaigns powered by AI-driven audience microtargeting to AI-powered bots that influence public discourse to animosity incentivized by algorithmic content curation, AI has changed how politicians engage with the public, revealed new societal vulnerabilities, and exacerbated longstanding social ills. At the same time, these technologies empower new voices and engagement in political processes. This course encourages the critical evaluation of how AI has impacted political behavior and opened new threats like foreign electoral inference, disinformation, and manipulation through deep-fakes and generative language models. Through an exploration of key dimensions and challenges around the use of AI in political processes and methods to cope with these challenges, students will debate AI governance and frameworks for ethical, fair, transparent, and accountable AI.*

HNUH248O is part of the Artificial? Intelligence? thematic cluster and pairs with HNUH248C to complete the cluster. Artificial? Intelligence? Courses will be offered through Spring 2026.

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| 0101 | Cody Buntain | Seats (Total: 20) |
| | MW 1:00pm - 2:15pm | SQH 1123 |

**HNUH248Q** **Frankenscience: An Exploration of "Natural" and "Artificial" In Society and Science Fiction**

*What is "natural" and what is "artificial"? While this distinction might seem obvious at first, modern biology has blurred it in surprising ways. Genetic engineering, vaccination, immunotherapies, bionics, and cybernetics all combine natural and artificial components to bring new dimensions to the way we think about human health. At the same time, humans have grappled with fears and innovation through speculative fiction far longer than these ideas have had practical applications. Landmark stories of artificial life include beings in Greek mythology (Talos), Jewish lore (golem), Mary Shelley's Frankenstein, and more to the present day. Approaching the interface between biological and artificial materials from both perspectives, this course will present history's cutting-edge developments in biomedical research and explore the boundaries of the natural and artificial in science fiction, allowing students to develop tools for grappling with AI and other "Frankenscience."*

HNUH248Q is part of the Artificial? Intelligence? thematic cluster and pairs with HNUH248C to complete the cluster. Artificial? Intelligence? Courses will be offered through Spring 2026.

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| 0101 | Kenneth Frauwirth<br>TuTh 11:00am - 12:15pm | Seats (Total: 20)<br>LEF 1171 |

**HNUH248R** **Artificial Intelligence: Critical Examinations through Science Fiction and Technology**

*AI permeates our world, but science fiction (SF) told stories about it centuries before AI became a reality in the 1950s, shaping our understanding and expectations through words and images. In this course, students will trace AI's evolution through SF to critically examine how key SF works have shaped how we think about AI and intelligence. Through an exploration of existing AI, like autonomous weapon systems, generative AI, and AI assistants, as well as a visit to UMD's AI department, students will learn to be critical viewers, readers, and developers as they grapple with AI's moral and social implications. Using the context of SF and technological developments, we will explore what the creation, existence, and evolution of fictional and real AI means for technology and humanity.*

HNUH248R is part of the Artificial? Intelligence? thematic cluster and pairs with HNUH248C to complete the cluster. Artificial? Intelligence? Courses will be offered through Spring 2026.

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|---|---|---|
| 0101 | Rebecca Jones<br>MW 9:00am - 10:15am | Seats (Total: 20)<br>YDH 0104F |
| 0201 | Rebecca Jones<br>MW 10:30am - 11:45am | Seats (Total: 20)<br>YDH 0104F |

**HNUH249P** **National Security: US Foreign Policy**

*Credit only granted for: HNUH249P or HONR269T. Formerly: HONR269T.*

*Following the terrorist attacks of September 11, 2001, the U.S. launched a major effort to dismantle the Taliban and create a sustainable democracy in Afghanistan. In 2021, the Taliban took control of the country. Was the U.S. effort doomed to fail? To answer this question, UH students will partner with peers at the American University of Afghanistan through a virtual global classroom to examine the lessons learned from the U.S. and international presence in Afghanistan over the past 20 years. Through reading assignments and virtual meetings with former senior U.S. and Afghan officials, students will examine the reasons behind the downfall of the country and analyze whether the outcome could have been changed. Students are not expected to have any prior knowledge about the conflict in Afghanistan. This course is self-contained but paired with HNUH249T in the National Security track, which explores debates around efforts to protect the nation from terrorism while preserving our values.*

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| 0101 | Temim Nusraty<br>Tu 6:30pm - 9:00pm | Seats (Total: 20)<br>LEF 1171 |

**HNUH249T** **National Security: Domestic Dilemmas**

*Credit only granted for: HNUH249T or HONR278D. Formerly: HONR278D.*

*The police detain a man thought to be plotting a terrorist attack the next day in a U.S. city that would kill or injure thousands. They want to subject him to "enhanced interrogation," which some consider to be torture. Should the police be permitted to use enhanced interrogation techniques? Who decides? This course will ask key questions raised during the efforts of our national security apparatus to protect the nation. Given the tension between the powers of the government to protect citizens, and the necessary limits on that power, what are the fundamental principles that should govern our efforts to protect the nation while preserving our values? Students will try their hand at finding the delicate balance of these principles in difficult national security dilemmas. This course is self-contained but paired with HNUH249P in the National Security track, which explores post-9/11 policy decisions around the U.S. effort to create a sustainable democracy in Afghanistan.*

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| 0101 | Daniel Rosenthal | Seats (Total: 20) |
| | Tu 7:00pm - 9:30pm | ESJ B0320 |

**HNUH258B** **The Ecology of Childhood Poverty**

*How does poverty shape the relationship between humans and their environment? It may seem obvious that being poor in childhood has enduring effects on development. What is less obvious is how experiencing poverty in childhood shapes relationships between children and their surroundings, including family interactions, peer relationships, adult dynamics, and the health of the community. Less clear still is the extent to which positive interactions with caretakers and social supports can protect children from potential harm as they grow up. This course focuses on the complexity of poverty as a social force and community concern. Students will investigate the nature of poverty through an interdisciplinary lens that includes social theory, developmental psychology, and empirical studies. After analyzing various approaches to the study of child poverty, students will be in a position to use research on parenting and poverty to evaluate public policy and social programs in their own backyard.*

HNUH258B is the required I-Series course in the Metamorphosis thematic cluster. Metamorphosis courses will be offered through Spring 2025.

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|---|---|---|
| 0101 | Natasha Cabrera | Seats (Total: 50) |
| | MW 2:00pm - 3:15pm | ESJ 2309 |

**HNUH259P** **Drawn to D.C.: Mapping the City**

*Restriction: Must have matriculated in University Honors starting in Fall 2020 or later.*

*Spaces, materials, objects, structures--the building-blocks of cities--index the values of the societies that produce them. By their very nature cities are memory devices. Yet, in an increasingly transient and virtual world, with access to a seemingly infinite amount of memory, what is the status of the spaces we inhabit? This course will explore the relationship among memory, the body and the built environment. Beginning with the role cities play in our individual lives and the construction of personal memories, we will take account of what we forget by remembering and what experiences are missing. Through lectures, seminars and discussions, students will produce short experimental books and pamphlets remapping Washington D.C. and the many invisible - personal - cities it contains. No previous art or design experience required. This course is self-contained but paired with HNUH259T in the Drawn to D.C. track, which explores the created spaces we inhabit, and how they inhabit us.*

HUNH259P pairs with HUNH259T to complete the Drawn to D.C. Theory/Practice track. This pair of courses can be taken in any order. This track will be offered at least through the 2024-25 academic year.

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| 0101 | Hooman Koliji<br>MW 11:00am - 12:15pm | Seats (Total: 20)<br>ONLINE | |

**HNUH268B** **Global Heritage**

*What traction does the past have in society today? This course explores globally how the past gains traction in society today and becomes remade in the present. That inquiry will be guided by the idea of heritage, as it mobilizes the past within a broad spectrum of social, political, economic, and environmental issues. We will examine western relationships to the past as intimately tied to property and the drive to plunder, collect, and catalogue. Increasingly, conceptions of heritage include landscapes, as well as intangibles such as music, dance, and folklore. This broad definition honors the diversity of present-day relations to the past, even as it strains heritage management models that are organized around definitions and regulations, and bear the weight of historical injustice. Close examination of heritage at work within global crisis and struggle prompts questions on who owns the past, and who owns up to it. What do we owe the past, and will we be good ancestors to the future?*

HNUH268B is the required I-Series course in the Heritage thematic cluster. Heritage courses will be offered through Spring 2025.

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| 0101 | Kathryn Lafrenz Samuels<br>MW 10:00am - 10:50am<br>F 11:00am - 11:50am | Seats (Total: 10)<br>TLF 0103<br>MMH 1304 | <br><br>Discussion |
| 0102 | Kathryn Lafrenz Samuels<br>MW 10:00am - 10:50am<br>F 10:00am - 10:50am | Seats (Total: 10)<br>TLF 0103<br>MMH 1304 | <br><br>Discussion |

**HNUH268I** **Origin Stories: Case Studies in American Identity**

*E Pluribus Unum, the motto on U.S. currency, is one way to describe how America sees itself as a nation. Yet, the United States has always been a country of disparate, converging cultural identities brought together through circumstance and movement such as colonization, immigration, and the transatlantic slave trade. Despite unifying notions such as the melting-pot metaphor and the Pledge of Allegiance, the American experience is one that features racial and ethnic tensions, varying in intensity depending on the geopolitical context of the moment. If we say we are American, where does that shared heritage align with individual identity and where does it diverge? With theories and tools drawn from Cultural Studies, Sociolinguistics, and Microhistory, this course will explore the construction of racial and ethnic differences to understand the dynamic nature of our heritage(s) and how it shapes our identities.*

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| 0101 | Robert Graham<br>MW 1:00pm - 2:15pm | Seats (Total: 20)<br>YDH 0104F | |

**HNUH268W** **Where the Waters Blend: Contemporary Indigenous Perspectives on History, Traditions, and Modern Issues**

*In this unique cultural and personal learning experience, students will explore the history, traditions, and contemporary issues faced by Maryland's Indigenous people. The experiential work of the course asks students to consider how the past matters, particularly when it is embodied in the land they live on, and their present obligations to it. On-campus and place-based learning, focused on the precolonial and colonial histories of Maryland's Indigenous people, and their contemporary issues create opportunities for students to reflect upon and interrogate their understanding of Maryland's past, present, and future. Students will emerge from this course with a greater understanding of the Maryland's Indigenous people and an increased capacity to challenge colonial and postcolonial paradigms that marginalize the Indigenous people in our region, nation, and across the globe.*

HNUH268W is part of the Heritage thematic cluster and pairs with HNUH268B to complete the cluster. Heritage courses will be offered through Spring 2025.

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|---|---|---|
| 0101 | Tiara Thomas, Angela Stoltz | Seats (Total: 20) |
| | W 5:30pm - 8:00pm | YDH 0104F |

**HNUH269P** **Building Community: How to Make Friends**

*Credit only granted for: HNUH248U or HNUH269P. Formerly: HNUH248U.*

*In 2017, U.S. Surgeon General Vivek Murthy deemed loneliness an "epidemic." While the rise of social media is meant to foster connection, over 23% of adults report being lonely and social networks have been shrinking for decades. Despite increasing rates of loneliness, it is still possible to overcome these trends and find connection. We tend to assume that we should know how to connect with others intuitively, but, as rising rates of loneliness indicate, this is not the case: connection is something we must learn and practice. In this applied course, students will learn the science of connection and engage in practical activities designed to help them make and keep friends. They will leave the course better able to foster meaningful connections. This course is self-contained but paired with HNUH269T in the Building Community track, where you will learn the social value of showing up, for the world and for yourself.*

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| 0101 | Marisa Franco | Seats (Total: 20) |
| | TuTh 12:30pm - 1:45pm | YDH 0104F |

**HNUH278B** **Democratic Habits**

*How do ordinary citizens power democracy? At the age of 18, every American citizen is endowed with the right to vote, but what if democracy demands more than voting? With democratic processes seemingly in peril all around us, what can and should ordinary citizens do to safeguard democracy? Looking beyond the basic right to vote, this class will instead explore the complex ecosystem of citizenship practices necessary for collective self-governance. Turning to both philosophy and history, the course material addresses the power and peril of such civic habits as mutual aid, economic participation, tolerance, attention, organizing, protest, and more. We consider what resources these habits require, what virtues they inspire, and what happens when they conflict with each other. Students in this course will acquire the tools to develop and act on their own answer to the pressing question of what it will take to save democracy.*

Restricted to UH students matriculating in Fall 2020 or later. HNUH278B is the required I-Series course in the Civil Bonds thematic cluster. Civil Bonds courses will be offered through Spring 2025.

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| 0101 | Kristjana Maddux | Seats (Total: 40) |
| | TuTh 9:30am - 10:45am | SQH 1119 |

**HNUH278I** **Bonded: Loneliness, Health, and Quality of Life**

*Society has become more and more disconnected, with 61% of American reporting being lonely. The U.S. Surgeon General's Advisory on the Healing Effects of Social Connection and Community reports that "The mortality impact of being socially disconnected is similar to that caused by smoking up to 15 cigarettes a day, and even greater than that associated with obesity and physical inactivity." Disconnection is devastating for health and for society. Particularly in a democracy predicated on the health of civic life, which requires interpersonal and community relationships, where does this predicament leave us as a society? This course illuminates the potential root causes of disconnection: early familial relationships, attachment styles, and broader technological trends. Students will leave the course with a toolkit of evidence-based strategies they can use - and share - to help heal these divides and repair our core social connections.*

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|---|---|---|
| 0101 | Marisa Franco | Seats (Total: 20) |
| | TuTh 2:00pm - 3:15pm | YDH 0104F |

**HNUH278V** **Climate Change, Infectious Disease, and Civil Society**

*Viruses that are lethal to human life have been on earth for centuries. Why are they surging now? And how can we respond to the recent breakneck spread of Coronavirus? This class begins its journey with Homo sapiens, our ancestor that dispersed out of Africa and carried infectious diseases across the planet. Human expansion into new ecosystems also provided opportunities for us to acquire new pathogens. While all of human history is marked by diseases caused by human migration, the Industrial Revolution greatly accelerated human mobility while planting the seeds of the human impact on climate change. Today, the increasingly rapid movement of people and goods, combined with a warming planet and the large-scale disruption of major ecosystems has witnessed an unprecedented spread of infectious diseases. Students will explore how these trends impact our lives and collectively challenge themselves to do what must be done to save our planet and ourselves.*

HNUH278V is part of the Civil Bonds thematic cluster and pairs with HNUH278B to complete the cluster. Civil Bonds courses will be offered through Spring 2025.

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|---|---|---|
| 0101 | Jonathan Dinman | Seats (Total: 20) |
| | TuTh 9:30am - 10:45am | MCB 1123 |

**HNUH288B** **Race, Reproduction and Rights**

*Can humanity thrive without ensuring reproductive freedom? The 2022 US Supreme Court decision that the right to an abortion is unconstitutional has generated impassioned debate about women's rights and access to reproductive health care in the US and globally. This debate opens space to think beyond "pro-choice or pro-life" polarization and create conditions that promote equity, respect for rights, and a healthy society. These conditions would need to address injustices such as the racism, gender inequalities, marginalization, and colonization that produce disparities in reproductive health care and jeopardize the well-being of individuals, families, communities, and countries. Who controls the bodies of marginalized women and men? What is the meaning of reproductive rights for people who have little power? This course challenges students to bring together multiple disciplines, become critical data consumers, and develop innovative ways to use this knowledge to influence policy.*

HNUH288B is the required I-Series course in the Health Matters thematic cluster. Health Matters courses will be offered through Spring 2025.

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| 0101 | Sangeetha Madhavan<br>TuTh 11:00am - 12:15pm | Seats (Total: 60)<br>TWS 0310 |

**HNUH288U** **The Body Knows: Creating Healthy Intimacy on College Campuses**

*How do we figure out what we physically desire? How do we know where our boundaries are and how do we communicate that to others? What would it look like to create a campus community where young people are confident about their sexuality and their ability to communicate the nuances of their needs to potential partners? This course is designed as a creative workshop to help students put their own embodied knowledge in conversation with theories and practices of healthy intimacy. Core texts explore the history of sexual violence as a tool of colonization, the relationship between feminism and sex-positivity in popular culture, and the consent theories that have become central to college campus responses to sexual violence. With the help of performance-based techniques, students will have the opportunity to research issues specific to UMD, design curricula for their peers, and advocate for an end to sexual violence on campus.*

HNUH288U is part of the Health Matters thematic cluster and pairs with HNUH288B to complete the cluster. Health Matters courses will be offered through Spring 2025.

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|---|---|---|
| 0101 | K Lieder<br>TuTh 12:30pm - 1:45pm | Seats (Total: 20)<br>PKT 2102 |
| 0201 | K Lieder<br>TuTh 2:00pm - 3:15pm | Seats (Total: 20)<br>PKT 2102 |

**HNUH288W** **Over My Dead Body: Law and the Ethics of Healthcare**

*In real time during the pandemic, we had a front-row seat to how much global healthcare can be a function not of the law but of human action. From how to prioritize populations for vaccines to individual decisions about masks, we were plunged into an almost daily discussion of the values and moral principles that guide nations and people in making choices about healthcare. This class invites students to explore their sense of right and wrong in the public healthcare debate. We will look at traditional issues such as legal paternalism, informed consent, and governmental distrust. And we will take up pressing current issues like abortion's impact on identity/privacy, disparities in marginalized communities, and biometric technologies. Students will acquire the tools to think critically think about these important issues of fairness and what our current practices reveal about society's values.*

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| 0101 | Kerry Tripp<br>W 2:00pm - 4:30pm | Seats (Total: 20)<br>TWS 0223 |

**HNUH300** **Vantage Point Seminar**

*Goal-setting and project-design seminar required of all UH students and taken in the second semester of the sophomore year or the first semester of the junior year.*

Restricted to UH students matriculating in Fall 2020 or later. Vantage Point is for UH students in their 4th or 5th semester who have already completed or are completing their second cluster or track for the UH Citation.

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|---|---|---|
| 0201 | Robert Graham<br>MW 10:00am - 10:50am | Seats (Total: 20)<br>KNI 1105 |
| 0301 | Daniel Zipp<br>MW 11:00am - 11:50am | Seats (Total: 20)<br>ASY 3219 |
| 0401 | Brynne McBryde<br>MW 11:00am - 11:50am | Seats (Total: 20)<br>ASY 3217 |
| 0501 | Jordan Johnson<br>MW 2:00pm - 2:50pm | Seats (Total: 20)<br>TYD 1108 |
| 0601 | Rebecca Jones<br>MW 3:00pm - 3:50pm | Seats (Total: 20)<br>WDS 1131 |
| 0801 | Ingrid Satelmajer<br>TuTh 12:30pm - 1:20pm | Seats (Total: 20)<br>ASY 3217 |
| 0901 | Ingrid Satelmajer<br>TuTh 2:00pm - 2:50pm | Seats (Total: 20)<br>SQH 2120 |

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|---|---|---|
| 1001 | K Lieder | Seats (Total: 20) |
| | TuTh 4:00pm - 4:50pm | KEY 0117 |

**HNUH318T** **Political Engagement and Advocacy**

(Perm req)

*Restriction: Must be in the Federal Fellows Program; and permission of instructor. Cross-listed with: FGSM310. Credit only granted for: HNUH318T or FGSM310.*

*An examination of questions and issues in the practice of political engagement and advocacy. Guest lecturers drawn from political, civic engagement, and advocacy arenas will visit class and participate in discussions.*

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| 0101 | Peter Owen | Seats (Total: 24) |
| | M 6:00pm - 9:00pm | ESJ 1215 |

**HNUH319T** **Civic Leadership and Human Services**

(Perm req)

*Restriction: Must be in the Maryland Fellows Program; and Permission of Department. Cross-listed with: FGSM315.*

*An examination of important issues, methodologies and tools of civic leadership in relation to human services, especially at the state and local level.*

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| 0101 | Emily Shetty | Seats (Total: 23) |
| | Tu 5:30pm - 8:30pm | IRB 2107 |

**HNUH328T** **Public Health Policy**

(Perm req)

*Restriction: Must be in the Federal Fellows Program; and permission of instructor. Cross-listed with: FGSM320. Credit only granted for: UNIV348P, HNUH328T or FGSM320. Formerly: UNIV348P.*

*An exploration of the major questions and issues facing the U.S. health care system as well as the formulation and implementation of health policy.*

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| 0101 | Woodie Kessel | Seats (Total: 25) |
| | Tu 3:30pm - 6:30pm | ESJ B0322 |

**HNUH338T** **Homeland and National Security Policy**

(Perm req)

*Restriction: Must be in the Federal Fellows Program; and permission of instructor. Cross-listed with: FGSM330. Credit only granted for: UNIV348T, HNUH338T or FGSM330. Formerly: UNIV348T.*

*An examination of the concept of U.S. homeland and national security, threats, and major vulnerabilities in the context of recent history.*

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|---|---|---|
| 0101 | Casie Antalis, Andrew Fausett | Seats (Total: 23) |
| | M 6:00pm - 9:00pm | ESJ 1309 |

**HNUH348T** **Energy and Environmental Policy**

(Perm req)

*Restriction: Must be in the Federal Fellows Program; and permission of instructor. Cross-listed with: FGSM340. Credit only granted for: UNIV348E, HNUH348T or FGSM340. Formerly: UNIV348E.*

*An examination of issues of energy and environmental sustainability through an investigation of policy-making in energy, climate change, and sustainable development.*

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| 0101 | Ed Fendley | Seats (Total: 23) |
| | M 3:00pm - 6:00pm | ESJ 1309 |

**HNUH358T** **Critical Regions and International Relations**

(Perm req)

*Restriction: Must be in the Global Fellows Program; and permission of instructor. Cross-listed with: FGSM350. Credit only granted for: HNUH358T or FGSM350.*

*An examination of international relations and foreign policy challenges in critical regions.*

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| 0101 | Danusia Hubah | Seats (Total: 23) |
| | Th 7:00pm - 10:00pm | ESJ 1309 |

**HNUH359T** **U.S. Intelligence and Policymaking**

*Restriction: Must be in the Global Fellows Program; and Permission of Department. Cross-listed with: FGSM355.*

*Examines the role of intelligence in supporting U.S. security strategy and policy. Students will learn how the U.S. Intelligence Community (IC) is structured and organized, and will explore how intelligence is deployed to support the warfighter, diplomats, and senior-level decisionmakers. The course emphasizes the development of critical thinking and analytic skills, as well as professional writing and oral presentation abilities that are necessary for successful work in national security organizations. The course will feature guest lecturers from real-world practitioners to supplement course readings.*

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| 0101 | William Usher, Bruce Parsell | Seats (Total: 23) |
| | Th 7:00pm - 10:00pm | ESJ 1215 |

**HNUH368T** **U.S. Diplomacy and Policymaking**

(Perm req)

*Restriction: Must be in the Global Fellows Program; and permission of instructor. Cross-listed with: FGSM360. Credit only granted for: HNIUH368T or FGSM360.*

*An examination of questions and issues in the practice of contemporary diplomacy and policy-making. Guest lecturers drawn from Washington policy-making and foreign service communities will visit class and participate in discussion.*

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| 0101 | Nadia Farra, Bradley Gallagher | Seats (Total: 23) |
| | Tu 7:00pm - 10:00pm | ESJ 1309 |

**HNUH369T** **Economic Diplomacy: Challenges and Opportunities**

*Restriction: Must be in the Global Fellows Program; AND Permission of Department. Cross-listed with: FGSM365. Credit only granted for: FGSM365 or HNUH369T.*

*An examination of political, social, and environmental aspects of the global economy in the context of power competition and technological change.*

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| 0101 | Andrew Nissen | Seats (Total: 24) |
| | M 6:00pm - 9:00pm | ESJ 2212 |

**HNUH378T** **Science Diplomacy: Foreign Policy & Science, Technology, and Innovation**

(Perm req)

*Restriction: Must be in the Global Fellows Program; and permission of instructor. Cross-listed with: FGSM370. Credit only granted for: UNIV389F, HNUH378T or FGSM370. Formerly: UNIV389F.*

*An exploration of the critical roles scientific knowledge and technological innovation play in the formation and implementation of foreign policy issues, including energy and climate change, public health, space and innovation, and economic development.*

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| 0101 | Jeffrey Haeni, Jonathan Margolis | Seats (Total: 24) |
| | W 5:30pm - 8:30pm | AJC 2119 |

**HNUH379T** **Strategic Thinking, AI, and Innovation Power**

(Perm req)

*Restriction: Must be in the UMD Fellows Program; and Permission of Department. Cross-listed with: FGSM375.*

*This course will prepare students for careers in technology innovation in three segments. First, students will ground themselves in the basics of strategic theory and how to make a strategy at any level of analysis. Second, from a practitioner's perspective, students will explore the U.S. innovation ecosystem in the context of world affairs across industry, academia, government, and venture. By doing so they can also examine potential career paths in building technology power to improve international security. Third, students will gain practical experience from studying cases in innovation power and build their own tech strategy as a capstone experience. Through all three phases of the class, artificial intelligence will be used as the base case and the most important general purpose technology of our day thus gaining an appreciation for AI itself on one hand, and how it is but one example of how technology can impact the destiny of nations on the other.*

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| 0101 | Paul Maykish<br>Tu 6:00pm - 9:00pm | Seats (Total: 23)<br>ESJ 1215 |

**HNUH398P** **Federal and Global Experiential Learning**

(Perm req)

*Restriction: Permission of instructor. Repeatable to 9 credits if content differs. Cross-listed with: FGSM398. Credit only granted for: FGSM398 or HNUH398P.*

*This is the experiential course component of the Federal Fellows Program and Global Fellows Program.*

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|---|---|---|
| 0101 | Sabrina Labold, Jayakumar Arasan<br>Class time/details on ELMs | Seats (Total: 25)<br>ONLINE |
| 0201 | Jayakumar Arasan, Sabrina Labold<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE |

**HNUH398T** **Global Health Challenges and Water Security**

(Perm req)

*Restriction: Must be in the Global Fellows Program; and permission of instructor. Cross-listed with: FGSM390. Credit only granted for: HNUH398T, HONR378M, or FGSM390.*

*An examination of questions and issues of global health and water security. Expert practitioners will also visit class and participate in discussions.*

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|---|---|---|
| 0101 | Julien Katchinoff, Jonathan Margolis<br>W 3:00pm - 6:00pm | Seats (Total: 24)<br>AJC 2134 |

# HONR Honors Fall 2024

**HONR358A** **Honors Practicum**

*For student section leaders of HONR100 or HONR200.*

**Contact department for information to register for this course.**

**HONR368A** **MGA Legislative Seminar**

(Perm req)

*Prerequisite: Students who have taken courses with comparable content may contact the department; or ENGL101. Restriction: Permission of ARHU-English department. Cross-listed with: ENGL381. Credit only granted for: HONR368A or ENGL381. Additional information: Application required. Contact english@umd.edu for more information.*

*Prepares students to intern for the Maryland General Assembly. Introduces standard legislative genres and assigns extended practice in researching legislative issues.*

Cross-listed with ENGL381. Credit only granted for one of the following: ENGL381 or HONR368A. Admission to this course is by application only.

*Click here for more details.*

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|---|---|---|
| 0101 | Blake Wilder<br>TuTh 9:30am - 10:45am | Seats (Total: 15)<br>TWS 3250 |

# IDEA Academy for Innovation & Entrepreneurship Fall 2024

**IDEA101** **The Carillon Studio: Creative Problem Solving and Designing Your Maryland Experience**

*Restriction: Must be in the Carillon Communities Program. Credit only granted for: IDEA101 or CRLN101. Formerly: IDEA101.*

*Students learn creative problem solving and collaborative strategies that will drive academic success and empower students to tackle big questions.*

Restricted to students in Carillon Communities.

| | | |
|---|---|---|
| 0101 | Nikki Newman<br>Tu 4:00pm - 5:15pm | Seats (Total: 40)<br>ESJ 1215 |
| 0102 | Galina Reitz<br>Tu 4:00pm - 5:15pm | Seats (Total: 40)<br>PHY 2213 |
| 0103 | Diana Forbus<br>Tu 4:00pm - 5:15pm | Seats (Total: 40)<br>TYD 1118 |
| 0104 | Tami Smith<br>W 4:00pm - 5:15pm | Seats (Total: 40)<br>ESJ 2101 |
| 0105 | Anissa Scharborough<br>W 4:00pm - 5:15pm | Seats (Total: 40)<br>PHY 2213 |

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|---|---|---|---|
| 0106 | Tony Randall<br>W 4:00pm - 5:15pm | Seats (Total: 40)<br>PHY 2214 | |
| 0107 | Camila Siqueira Paranhos Velloso<br>W 4:00pm - 5:15pm | Seats (Total: 40)<br>IRB 1116 | |
| 0108 | Mitchell Woolley<br>Th 4:00pm - 5:15pm | Seats (Total: 40)<br>SPH 1302 | |
| 0110 | Tierra Collins<br>Th 4:00pm - 5:15pm | Seats (Total: 40)<br>PHY 2213 | |
| FC01 | Leslie Krafft<br>Tu 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection. This course is a part of Carillon Communities living-learning program. Students interested in participating in the Carillon community must register for CLUS080 FC01. Registration in CLUS080 will automatically enroll you in the required Carillon courses FMSC190 FC01 and IDEA101 FC01.* | Seats (Total: 0)<br>ESJ 2101 | |

**IDEA201** **Innovation Tools & Mindsets**

*Credit only granted for: IDEA201 or IDEA258A. Formerly: IDEA258A.*

*Challenges assumptions around what is needed to innovate and who innovators are. Through hands-on activities and reflection, you'll be invited to step out of your comfort zone, think and work in new ways, and gain confidence in your creative abilities.*

Section 0104 is a hybrid section that will have 4 in-person meetings.

| | | | |
|---|---|---|---|
| 0101 | Brooke Smith<br>Class time/details on ELMs | Seats (Total: 60)<br>ONLINE | |
| 0102 | Brooke Smith<br>Class time/details on ELMs | Seats (Total: 60)<br>ONLINE | |
| 0103 | Brooke Smith<br>Class time/details on ELMs | Seats (Total: 60)<br>ONLINE | |
| 0104 | Mira Azarm<br>Class time/details on ELMs<br>M 4:00pm - 5:30pm | Seats (Total: 30)<br>ONLINE<br>ESJ 2101 | Discussion |

**IDEA258U** **Special Topics in Innovation; Introduction to UI/UX Design**

*Special topics in innovation*

What does "User Experience" mean? It was a term coined by cognitive psychologist and designer Don Norman in the 1990s on the cusp of the new digital era; however, the field in practice has existed long before that. Unfortunately, due to its over use and misuse, the pure concept of UX has become lost in the weeds and details of all of its components and methods. In this course, we will take a deep look at the true meaning of UX as simply "a user's experience" and what that means for you as both a designer and a user. You will learn about core UX principles and methodologies from both an academic and practical standpoint and be challenged to apply what you learn in classroom workshops and assignments. Finally, you will be asked to think both inside and outside the bounds of technology to find innovative solutions to real world design problems.

| | | |
|---|---|---|
| 0101 | Mira Azarm, Katherine-Aria Close<br>M 4:00pm - 5:30pm | Seats (Total: 30)<br>ESJ 2101 |

**IDEA311** **Design Your Purpose**

*Credit only granted for: IDEA311 or IDEA379A. Formerly: IDEA379A.*

*What do you want to do once you graduate? What about with your life? These are the big questions we begin to tackle in this course. Use design methods and mindsets to explore your personal and professional development goals and explore potential career paths. Using empathy, brainstorming, and prototyping techniques, you'll imagine potential futures for yourself and test them to see if they are a good fit for you.*

| | | |
|---|---|---|
| 0101 | Brooke Smith, Christina Hnatov<br>Class time/details on ELMs | Seats (Total: 40)<br>ONLINE |

**IDEA398C** **Special Topics in Coaching: Carillon Peer Mentors**

(Perm req)

*Prerequisite: IDEA101. Restriction: Permission of the Academy for Innovation and Entrepreneurship.*

*Prepares students to serve as Peer Mentors in the Carillon Studio (IDEA101). Students gain exposure to a variety of design abilities, methods, and mindsets that prepare them to apply human-centered design to their work in and beyond the classroom. Each Peer Mentor is paired with an IDEA101 instructor, and together they teach aspects of design to first-year students in Carillon Communities, leading them through individual and team projects that encourage them to creatively solve problems. Students build upon their prior experiences in Carillon Communities as they develop skills in communication, leadership, mentorship, and design thinking.*

| | | |
|---|---|---|
| 0101 | Erica Estrada-Liou, Louisa Nkrumah<br>F 2:00pm - 2:50pm<br>Contact instructor or department for details. | Seats (Total: 22)<br>MMH 0108 |

**IDEA459** **The Innovation Studio**

*In this class, we'll use human-centered design practices to develop performance-based and curricular experiments for future implementation at the National Orchestral Institute + Festival (NOI+F) at UMD. Students will have the opportunity to connect the work we do in class to their own interests related to the visual and performing arts. Experience with classical music performance and/or human-centered design practices is optional. The class is highly experiential, collaborative, and reflective. This work is done through a partnership between NOI+F and the Academy for Innovation and Entrepreneurship to create innovation-related experiences at the festival every year.*

Cross-listed with IDEA459. Credit only granted for IDEA459 or IDEA659. In this class, we'll use human-centered design practices to develop performance-based and curricular experiments for future implementation at the National Orchestral Institute + Festival (NOI+F) at UMD. Students will have the opportunity to connect the work we do in class to their own interests related to the visual and performing arts. Experience with classical music performance and/or human-centered design practices is optional. The class is highly experiential, collaborative, and reflective. This work is done through a partnership between NOI+F and the Academy for Innovation and Entrepreneurship to create innovation-related experiences at the festival every year.

| | | |
|---|---|---|
| 0101 | Mira Azarm, Christina Hnatov | Seats (Total: 15) |
| | TuTh 11:00am - 12:15pm | ESJ 2101 |

**IDEA498** **Independent Study: Experiments in Innovation**

(Perm req)

*Apply design thinking and/or lean startup concepts to your own real-world project, which may involve a partner organization. This course requires a high degree of self-direction in all aspects of the project including defining specific milestones and deliverables. There will be regular coaching from an Academy for Innovation and Entrepreneurship team member.*

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|---|---|---|
| 0101 | Mira Azarm | Seats (Total: 3) |
| | Contact instructor or department for details. | |

**IDEA659** **The Innovation Studio**

*In this class, we'll use human-centered design practices to develop performance-based and curricular experiments for future implementation at the National Orchestral Institute + Festival (NOI+F) at UMD. Students will have the opportunity to connect the work we do in class to their own interests related to the visual and performing arts. Experience with classical music performance and/or human-centered design practices is optional. The class is highly experiential, collaborative and reflective. Students in the graduate version of the course will conduct additional research during various project stages. This work is done through a partnership between NOI+F and the Academy for Innovation and Entrepreneurship to create innovation-related experiences at the festival every year.*

Cross-listed with IDEA459. Credit only granted for IDEA459 or IDEA659. In this class, we'll use human-centered design practices to develop performance-based and curricular experiments for future implementation at the National Orchestral Institute + Festival (NOI+F) at UMD. Students will have the opportunity to connect the work we do in class to their own interests related to the visual and performing arts. Experience with classical music performance and/or human-centered design practices is optional. The class is highly experiential, collaborative, and reflective. This work is done through a partnership between NOI+F and the Academy for Innovation and Entrepreneurship to create innovation-related experiences at the festival every year.

| | | |
|---|---|---|
| 0101 | Mira Azarm, Christina Hnatov<br>TuTh 11:00am - 12:15pm | Seats (Total: 15)<br>ESJ 2101 |

**IDEA698** **Independent Study in Design Thinking**

(Perm req)

*Graduate students apply design thinking and/or lean startup concepts to a real-world project. This course requires a high degree of self-direction in all aspects of the project including defining specific milestones and deliverables. There will be regular coaching from an Academy for Innovation and Entrepreneurship team member.*

Restriction: Permisson required by the Academy for Innovation and Entrepreneurship. Graduate students apply design thinking and/or lean startup concepts to a real-world project. This course requires a high degree of self-direction in all aspects of the project including defining specific milestones and deliverables. There will be regular coaching from an Academy for Innovation and Entrepreneurship team member.

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|---|---|---|
| 0101 | Mira Azarm<br>Contact instructor or department for details. | Seats (Total: 6) |

# IMDM Immersive Media Design Fall 2024

**IMDM101** **Introduction to Immersive Media**

*Credit only granted for: CMSC101 or IMDM101. Formerly: CMSC101.*

*An introduction to the basic practices, concepts and issues in Immersive Media Design. Conducted as a hybrid studio/lecture course, students will work collaboratively in teams to complete both research and practical projects, including surveying current artists and practice in immersive media; completing studio-based interactive projects that fuse computational media into physical objects; and working in teams to ideate and execute large scale, immersive media works.*

| | | |
|---|---|---|
| 0101 | Mollye Bendell<br>MW 11:00am - 12:15pm | Seats (Total: 30)<br>AVW 3258 |
| 0201 | Myungin Lee<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>AVW 3258 |

| | | |
|---|---|---|
| 0301 | Myungin Lee | Seats (Total: 30) |
| | TuTh 9:30am - 10:45am | AVW 3258 |

**IMDM127** **Creative Coding for Digital Media**

*Restriction: Must not have completed any courses from CMSC131-499 course range; and must not be concurrently enrolled in CMSC131. Credit only granted for: IMDM127 or CMSC125.*

*An introduction to the principles of Computer Science supported by exercises in computer programming with an emphasis on creative coding, algorithmic image creation and manipulation, and interactive experiences. Students will make use of both exploratory coding approaches, and problem/solution-driven approaches, to design and implement software with visual and auditory output. The course also includes an introduction to a wide variety of issues relating to computer science and software, including software design and construction, problem-solving, and fundamental questions about the nature, limitations, and ethical use of computers and algorithms. It also explores how creativity tools can be used and as well as providing some insight into how they are implemented. The course is targeted to students with a broad diversity in backgrounds and interests. No prerequisites are assumed beyond high school algebra.*

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|---|---|---|
| 0201 | Roger Eastman | Seats (Total: 36) |
| | MWF 10:00am - 10:50am | AVW 3258 |

**IMDM150** **Digital Media Theory and Culture**

*Restriction: Must be in the Immersive Media Design program; or permission of IMDM - Immersive Media Design program.*

*An introduction to the fundamental structures and themes of digital culture in contemporary society. This course will provide you with a theoretical grounding in which to understand the current landscape of digital media culture, design and art. As an introductory course for the Immersive Media Design major, the focus will be on contextualizing immersive digital media such as virtual reality, augmented reality, immersive projection, and electronic art installation through reading, writing and discussion. Students will have opportunities to experience a range of these technologies first hand.*

| | | |
|---|---|---|
| 0101 | Stefano Passeri | Seats (Total: 30) |
| | TuTh 3:30pm - 4:45pm | AVW 3258 |

**IMDM227** **Introduction to Computational Media**

*Prerequisite: Minimum grade of C- in IMDM101 and IMDM150; and minimum grade of C- in CMSC131 or (IMDM127 and CMSC122). Restriction: Must be in the Immersive Media Design program or Permission of IMDM - Immersive Media Design program.*

*Comprehensive introduction to programming for visual, auditory and tactile art. Introduction to basic programming constructs, algorithms, data structures, and data transformations for creating and managing multimedia content, and conducting user interaction. Emphasis on programming and software design including the interfaces between hardware and software in multimedia devices, creating graphical user interfaces, and basic graphics and sound rendering.*

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|---|---|---|
| 0101 | Stevens Miller<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>PLS 1129 |
| 0201 | Stevens Miller<br>TuTh 9:30am - 10:45am | Seats (Total: 30)<br>PLS 1129 |

**IMDM327** **Computational Virtual Reality**

*Prerequisite: Minimum grade of C- in IMDM227 and CMSC132. Restriction: Must be in the Immersive Media Design, Computing program; or Permission of IMDM - Immersive Media Design program.*

*Introduction to mechanisms and programming for virtual reality, augmented reality, and related technologies. Covers elements of a standard VR system, including creating, managing and rendering visual and audio VR content, tracking orientation and positions of head mounted display (HMD) and controller, rendering stereo imagery for VR headsets, and implementing approaches for user interactivity.*

| | | |
|---|---|---|
| 0101 | Myungin Lee<br>TuTh 11:00am - 12:15pm | Seats (Total: 25)<br>AVW 3258 |

**IMDM350** **Advanced Digital Media Theory**

*Prerequisite: Minimum grade of C- in IMDM150. Restriction: Must be in the Immersive Media Design, Emerging Creatives program; or Permission of IMDM - Immersive Media Design program.*

*Advanced theories and concepts pertinent to the fields of immersive media design, new media art, design, and cultural technology. Also looks at ways in which contemporary societal norms are being shaped by game culture, social and mobile media, AR/VR escapism, network aesthetics, hacktivism, open-source culture, neural networks, artificial intelligence, and machine learning, among others. This course addresses the broad range of ways in which the accelerating pace of technological advances influence how we mediate the world around us and examines the environmental, social, political, and ethical implications of its use.*

| | | |
|---|---|---|
| 0101 | Jeffrey Moro<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>AVW 3258 |

**IMDM490** **Senior Capstone I**

*Prerequisite: Minimum grade of C- in IMDM290. Restriction: Must be in Immersive Media Design major Computing or Emerging Creatives track; and must have earned a minimum of 86 credits.*

*The first course in a two-semester senior capstone sequence. During IMDM490 students will research, design and prototype a large-scale immersive media design project, in preparation for fully implementing and exhibiting the project in IMDM491 Capstone II. Students will have the opportunity to apply design and technical skills they have acquired in previous courses as well as focus on the organizational and production skills needed for a substantial, longer term project to achieve an artistic or technical goal.*

| | | |
|---|---|---|
| 0101 | Ian McDermott, Yael Inbar<br>MW 12:30pm - 1:45pm | Seats (Total: 30)<br>AVW 3258 |
| 0201 | Ian McDermott, Yael Inbar<br>MW 2:00pm - 3:15pm | Seats (Total: 30)<br>AVW 3258 |

**IMDM499A** **Independent Undergraduate Research**

*Directed research under the supervision of a faculty member in immersive media. Students and supervising faculty member will agree to a research plan which must be approved by the department. As part of each research plan, students should produce a final paper on their research.*

**Contact department for information to register for this course.**

# IMMR Immigration Studies Fall 2024

**IMMR319D** **Special Topics in Immigration and Migration Studies; Black Immigrants: Challenges and Impacts**

*Thematic exploration of a topic in immigration or migration studies with emphasis on understanding how the movement of people is relevant in the contemporary world.*

Cross-listed with AASP398B. Credit only granted for AASP398B or IMMR319D. How does immigration affect Black communities in the United States? How are foreign Black affected by living in the United States? Students will learn about: US history of immigration policy; pull and push factors driving Black migration; comparisons in socioeconomic outcomes between foreign and native Blacks; and differences between 1st and 2nd generation Black immigrants.

| | | |
|---|---|---|
| 0101 | Chinyere Osuji<br>MW 3:00pm - 4:15pm | Seats (Total: 25)<br>ONLINE |

**IMMR394** **Growing Up Asian American: The Asian Immigrant Family and the Second Generation**

*Cross-listed with: AAST394, AMST324. Credit only granted for: AAST394, AAST398E, AMST324, AMST328V, IMMR319G or IMMR394. Formerly: AAST398E.*

*An interdisciplinary course examines the experiences of children of Asian immigrants in the U.S., focusing on intergenerational dynamics in the Asian immigrant family, their intersections with race, gender, class, sexuality, and religion, and how these shape second-generation Asian American life. Topics include identity and personhood, the model minority myth and education, work and leisure, language and communication, filiality and disownment, mental health and suicide.*

| | | |
|---|---|---|
| 0101 | Joan Hong<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>HBK 1108 |

**IMMR399** **Internship in Immigration/Migration Studies**

(Perm req)

*Internship experience with an organization that works with or studies migration or immigrant populations. This experiential learning course provides training that enriches the students' academic field of study and the IMMR transcript notation. Students submit a final written report of how the experience ties into their major field of study.*

Prerequisite: HIST222, IMMR200, or IMMR400; and permission of the Center for Global Migration Studies required. Restriction: Minimum cumulative GPA of 2.5; and must have earned a minimum of 60 credits. Repeatable to 6.0 credits if content differs. Additional information: This course is intended primarily for students seeking the Immigration and Migration Studies transcript notation, but exceptions will be considered for students with educational or career interests that lie in this area. Student internships must be approved by the Executive Director of the Center for Global Migration Studies. Students must secure an appropriate faculty mentor for the internship course. An internship course will be approved only if a faculty supervisor is available. Internship experience with an organization that works with or studies migration or immigrant populations. This experiential learning course provides training that enriches the students' academic field of study and the IMMR transcript notation. Students submit a final written report of how the experience ties into their major field of study.

| | | |
|---|---|---|
| 0101 | Instructor: TBA | Seats (Total: 2) |
| | Contact instructor or department for details. | |

**IMMR400** **Vital Voices: Oral Histories of the Immigrant Experience**

*Recommended: HIST222; or IMMR200. Credit only granted for: HIST428N, IMMR400, THET428I, or THET498V. Formerly: HIST428N.*

*An exploration of the dynamic subject of U.S. immigrant experience through the scope of individual immigrant life stories in a global context. Course will include an overview of U.S. and global immigration patterns and an introduction to the practice of oral history.*

| | | |
|---|---|---|
| 0101 | Colleen Woods | Seats (Total: 20) |
| | M 1:00pm - 3:30pm | TLF 2103 |

# INAG Institute of Applied Agriculture Fall 2024

**INAG100** **Introduction to Plant Science**

*Restriction: Must be a student in the Institute of Applied Agriculture; or permission of AGNR-Institute of Applied Agriculture department. Credit only granted for: INAG100, PLSC100, PLSC101, PLSC110 or PLSC112.*

*A general introduction to plant science designed to provide the students with a working knowledge of the fundamental structures and processes of plants. Content includes plant anatomy, physiology, genetics and environmental relationships.*

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|---|---|---|---|
| 0101 | Kenneth Ingram | Seats (Total: 15) | |
| | MWF 8:00am - 8:50am | JUL 1123 | |
| | W 9:00am - 10:50am | JUL 1111 | Lab |

| | | | |
|---|---|---|---|
| 0102 | Kenneth Ingram | Seats (Total: 15) | |
| | MWF 8:00am - 8:50am | JUL 1123 | |
| | F 9:00am - 10:50am | JUL 1111 | Lab |

**INAG102** **Agricultural Entrepreneurship**

*Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-Institute of Applied Agriculture department. Additional information: Priority in enrollment will be given to students within the Institute of Applied Agriculture. May not count toward any BMGT major or minor requirement.*

*This course introduces fundamental concepts related to launching a profitable agricultural business. Topics include idea generation, opportunity recognition, conducting feasibility studies, assembling the entrepreneurial team, and financing the new venture, among others. Students will learn knowledge and skills relevant to starting a new agricultural business.*

| | | |
|---|---|---|
| 0101 | Dane Grossnickle | Seats (Total: 35) |
| | MWF 12:00pm - 12:50pm | KEB 1200 |

**INAG103** **Agricultural Marketing**

*Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-Institute of Applied Agriculture department. Additional information: Priority in enrollment will be given to students within the Institute of Applied Agriculture. Course cannot be used to fulfill a requirement for a Robert H. Smith School of Business major or minor.*

*Principles of market demand are used to develop a consumer oriented market strategy for agricultural businesses. Topics include market structures, target marketing, market segmentation, niche marketing and direct marketing. Market concepts unique to agriculture products are also covered.*

| | | |
|---|---|---|
| 0101 | Meredith Epstein | Seats (Total: 45) |
| | MWF 11:00am - 11:50am | ANS 0412 |

**INAG106** **Pesticide Use and Safety**

*Restriction: Must be in a major in AGNR-Institute of Applied Agriculture department; or must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-Institute of Applied Agriculture department. Additional information: Priority enrollment will be given to students in the IAA program or to students in the College of Agriculture and Natural Resources (AGNR).*

*An overview of pesticide use and safety. Topics include environmental protection, labeling, personal safety, first aid, formulation and chemistry, equipment, disposal, storage, record-keeping and liability. The course prepares students to take the Maryland State test for a private applicator's license.*

| | | |
|---|---|---|
| 0101 | Ronald Myers | Seats (Total: 30) |
| | Class time/details on ELMs | ONLINE |

**INAG110** **Oral Communication**

*Credit only granted for: COMM107, COMM200, INAG110, JOUR130, THET285.*

*A study of how perception, self-concept, and verbal and nonverbal communications affect the communication process as it emerges in the workplace. The course provides skill training in speech writing, public speaking, group communication, interpersonal communication, listening, and responding.*

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|---|---|---|
| 0101 | Eric Dunning<br>MWF 8:00am - 8:50am | Seats (Total: 19)<br>EGR 1110 |
| 0201 | Chelsea Mays-Williams<br>MWF 8:00am - 8:50am | Seats (Total: 19)<br>ATL 1410 |
| 0301 | Eric Dunning<br>MWF 9:00am - 9:50am | Seats (Total: 19)<br>EGR 1110 |
| 0401 | Robert Ballenger<br>MWF 9:00am - 9:50am | Seats (Total: 19)<br>ATL 0201 |
| 0501 | Chelsea Mays-Williams<br>MWF 9:00am - 9:50am | Seats (Total: 19)<br>ATL 1410 |
| 0701 | Chelsea Mays-Williams<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>ATL 1410 |
| 0801 | Lori Sefton<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>MMH 0108 |
| 0901 | Eric Dunning<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>EGR 1102 |
| 1001 | Lori Sefton<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>MMH 0108 |
| 1101 | Robert Ballenger<br>MWF 11:00am - 11:50am | Seats (Total: 19)<br>ATL 0201 |
| 1201 | George Kurtzweil<br>MWF 12:00pm - 12:50pm | Seats (Total: 19)<br>CHE 2140 |
| 1301 | Lori Sefton<br>MWF 12:00pm - 12:50pm | Seats (Total: 19)<br>MMH 0108 |

| | | |
|---|---|---|
| 1401 | David Gormong<br>MWF 12:00pm - 12:50pm | Seats (Total: 19)<br>EGR 1102 |
| 1501 | David Gormong<br>MWF 1:00pm - 1:50pm | Seats (Total: 19)<br>EGR 1102 |
| 1601 | Amy Fisher<br>MWF 1:00pm - 1:50pm | Seats (Total: 19)<br>ONLINE |
| 1701 | George Kurtzweil<br>MWF 1:00pm - 1:50pm | Seats (Total: 19)<br>CHE 2140 |
| 1801 | David Gormong<br>MWF 2:00pm - 2:50pm | Seats (Total: 19)<br>EGR 1102 |
| 1901 | George Kurtzweil<br>MWF 2:00pm - 2:50pm | Seats (Total: 19)<br>CHE 2140 |
| 2001 | Amy Fisher<br>MWF 2:00pm - 2:50pm | Seats (Total: 19)<br>ONLINE |
| 2101 | Amy Fisher<br>M 3:00pm - 4:15pm<br>W 3:00pm - 4:15pm | Seats (Total: 19)<br>ONLINE<br>PLS 1184 |
| 2201 | Samuel Rubin<br>M 6:00pm - 8:45pm | Seats (Total: 19)<br>CHE 2140 |
| 2301 | Samuel Rubin<br>W 6:00pm - 8:45pm | Seats (Total: 19)<br>CHE 2140 |
| 2401 | Chelsea Mays-Williams<br>TuTh 8:00am - 9:15am | Seats (Total: 19)<br>ATL 1410 |
| 2501 | Eric Dunning<br>TuTh 8:00am - 9:15am | Seats (Total: 19)<br>PLS 1162 |
| 2601 | Chelsea Mays-Williams<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>ATL 1410 |

| | | |
|---|---|---|
| 2701 | Amy Fisher<br>Tu 9:30am - 10:45am<br>Th 9:30am - 10:45am | Seats (Total: 19)<br>PLS 1162<br>ONLINE |
| 2801 | Lori Sefton<br>TuTh 9:30am - 10:45am | Seats (Total: 19)<br>PLS 1172 |
| 2901 | Lori Sefton<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>PLS 1172 |
| 3001 | David Gormong<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>JMZ 2206 |
| 3101 | Robert Ballenger<br>TuTh 11:00am - 12:15pm | Seats (Total: 19)<br>ATL 2352 |
| 3201 | Robert Ballenger<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>ATL 2352 |
| 3301 | George Kurtzweil<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>CHE 2140 |
| 3401 | David Gormong<br>TuTh 12:30pm - 1:45pm | Seats (Total: 19)<br>JMZ 2206 |
| 3501 | George Kurtzweil<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>CHE 2140 |
| 3601 | Amy Fisher<br>Tu 2:00pm - 3:15pm<br>Th 2:00pm - 3:15pm | Seats (Total: 19)<br>JUL 1123<br>ONLINE |
| 3701 | Samuel Rubin<br>TuTh 2:00pm - 3:15pm | Seats (Total: 19)<br>MMH 0108 |
| 3801 | Samuel Rubin<br>TuTh 3:30pm - 4:45pm | Seats (Total: 19)<br>MMH 0108 |
| 3901 | Amy Fisher<br>Tu 3:30pm - 4:45pm<br>Th 3:30pm - 4:45pm | Seats (Total: 19)<br>JUL 1123<br>ONLINE |

| | | |
|---|---|---|
| 4001 | Samuel Rubin<br>TuTh 5:00pm - 6:15pm | Seats (Total: 19)<br>MMH 0108 |

**INAG110S** **Oral Communication**

*Credit only granted for: COMM107, COMM200, INAG110, JOUR130, THET285.*

*A study of how perception, self-concept, and verbal and nonverbal communications affect the communication process as it emerges in the workplace. The course provides skill training in speech writing, public speaking, group communication, interpersonal communication, listening, and responding.*

Restricted to College Park Scholars.

| | | |
|---|---|---|
| 0601 | Robert Ballenger<br>MWF 10:00am - 10:50am | Seats (Total: 19)<br>ATL 0201 |

**INAG123** **People, Planet, and Profit: Digging Into Sustainable Agriculture**

*Is it possible for agricultural producers to make a living and feed the world nutritious, culturally inclusive food while protecting--or even restoring--the environment? This course investigates the principles and practices of sustainable agriculture and their relationship to the greater food system. We will explore the social (people), environmental (planet), and economic (profit) impacts of agriculture - from challenges to opportunities. INAG123 applies the principles of sustainability to various agricultural production practices and systems - at a range of different scales - to see what lessons these varied models can offer. Along the way, we will consider domestic issues such as food safety and distribution, food justice, cultural relevance, biodiversity, farming communities, and effects on local economies.*

Students will have in person field trips scheduled and must provide their own transportation (actual dates to be determined).

| | | |
|---|---|---|
| 0101 | Meredith Epstein<br>W 2:00pm - 5:00pm | Seats (Total: 25)<br>SYM 3121 |

**INAG199** **Special Problems**

Restricted to students in the AGNR-Institute of Applied Agriculture department. Others by permission of the AGNR-Institute of Applied Agriculture department. A detailed study, including a written report, involving a current issue in an agricultural area that relates to the student's major. The study is conducted under the direction of a faculty member. A maximum of three credit hours of special problems may be applied toward graduation.

| | | |
|---|---|---|
| 0101 | Geoffrey Rinehart<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0201 | Meredith Epstein<br>Contact instructor or department for details. | Seats (Total: 10) |

| | | |
|---|---|---|
| 0301 | Kenneth Ingram<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0401 | Dane Grossnickle<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0501 | Heather McHale<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0601 | Thomas Mazzone<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0701 | Rebecka Tetter<br>Contact instructor or department for details. | Seats (Total: 5) |

**INAG199C** **Special Problems; Special Problems in AgriScience**

(Perm req)

Prerequisite: Students must successfully complete an accredited high school agriculture program with a minimum of 4 agriculture courses with a minimum grade of B in each course. Demonstrates the application of scientific principles of agriculture by developing and presenting an oral report on a capstone project relevant to ccurrent agriculture issues.

| | | |
|---|---|---|
| 0101 | Heather McHale<br>Contact instructor or department for details. | Seats (Total: 10) |

**INAG199D** **Special Problems; Agricultural Tractor Operations and Maintenance**

Restriction: IAA students are given priority. Other UMD students will be granted permission to enroll if seats are available. Class will be held at the Central Maryland Research and Education Center (CMREC), Clarksville Facility, 4240 Folly Quarter Road, Ellicot City, MD 21042. Dates are September 21 and 22, 2024, with a rain date of September 28 and September 29, 2024. Students will need to provide their own transportation to and from the facility. This class introduces students to the operation and maintenance of agricultural tractors and farm equipment. Students learn to safely perform regular maintenance, and handle materials.

| | | |
|---|---|---|
| 0101 | Jeffrey Semler<br>Contact instructor or department for details. | Seats (Total: 14) |

**INAG199E** **Special Problems; Professional Horticulture**

Prerequisite: Only open to IAA students who have successfully completed the approved CPH program of study with an unweighted cumulative grade point average of 3.0 or higher for all completed CPH courses as noted on the official high school transcript, and passed the student CPH certification exam administered by the Maryland Nursery, Landscape and Greenhouse Association, Inc. (MNLGA).

| | | |
|---|---|---|
| 0101 | Heather McHale | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**INAG201** **Agricultural Human Resources Management**

*Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-Institute of Applied Agriculture department. Additional information: May not count toward any BMGT major or minor requirement.*

*The course introduces students to the study and application of the basic principles of human relations and personnel management. A variety of approaches to recruiting, training, delegating, motivating, and appraising employees are among the topics discussed.*

| | | |
|---|---|---|
| 0101 | Kenneth Ingram | Seats (Total: 25) |
| | TuTh 11:00am - 12:15pm | JUL 1123 |

**INAG203** **Agricultural Finance**

*Restriction: Students at the Institute of Applied Agriculture (IAA); or students at the College of Agriculture and Natural Resources (AGNR); or permission may be granted to other students based on available space. Additional information: Course cannot be used to fulfill a requirement for a Robert H. Smith School of Business major or minor.*

*This course introduces fundamental concepts related to the financial management of an agricultural business. Topics include financial statement analysis, financial planning, the relationship between risk and return, the time value of money, costs associated with borrowed funds, sources of capital, financial markets and intermediaries in agriculture, and personal finance, among others. Students will gain financial knowledge and skills necessary for managing a profitable agricultural business.*

| | | |
|---|---|---|
| 0101 | Dane Grossnickle | Seats (Total: 25) |
| | MWF 1:00pm - 1:50pm | KEB 1200 |

**INAG208** **Understanding Turfgrass: Preparation for Intercollegiate Turfgrass Competitions**

*This course reinforces students' understanding of turf agronomic and integrated pest management principles of turfgrass management. This class is designed to prepare students for intercollegiate turf science competitions: the Golf Course Superintendents Association of America Turf Bowl and the Sports Field Managers Association Student Challenge.*

Restriction: For students from the Institute of Applied Agriculture and other departments from the College of Agriculture and Natural Resources, or by permission of the department. Repeatable to 4 credits. Additional information: While the basic content areas in the course schedule will remain the same, this course will be tailored each year to reflect current trends in the turf industry.

| | | |
|---|---|---|
| 0101 | Geoffrey Rinehart | Seats (Total: 10) |
| | Tu 5:00pm - 5:30pm | JUL 1111 |

**INAG226** **Diseases of Ornamentals and Turf**

*Recommended: Completion of one of the following is recommended: PLSC 253, PLSC 254, INAG 107, PLSC 305. Additional information: Priority in enrollment will be given to students within the Institute of Applied Agriculture.*

*The course will cover various topics such as plant pathology, disease control practices, and an in depth coverage of the major diseases of ornamentals and turfgrasses in the Mid-Atlantic region. Emphasis will be placed on identification of disease signs and symptoms. Over 50 diseases will be covered during the semester.*

| | | | |
|---|---|---|---|
| 0101 | Geoffrey Rinehart | Seats (Total: 15) | |
| | Tu 12:30pm - 2:20pm | JUL 1111 | |
| | Th 12:30pm - 2:20pm | JUL 1111 | Lab |

**INAG231 Insects of Ornamentals and Turf**

*Recommended: PLSC253, PLSC254, or PLSC305; or INAG107. Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources; or permission of AGNR-Institute of Applied Agriculture department. Additional information: Priority enrollment will be given to students in the IAA program.*

*A study of the major insect pests and beneficial insects of ornamental plants and turfgrasses in the Mid-Atlantic region. The student will be responsible for insect identification, life history, and control practices of approximately 100 insects. An insect collection consisting of both insect pests and beneficial insects is required.*

| | | | |
|---|---|---|---|
| 0101 | Geoffrey Rinehart | Seats (Total: 18) | |
| | WF 10:00am - 10:50am | JUL 1123 | |
| | M 9:00am - 10:50am | JUL 1111 | Lab |

**INAG237 GPS & Drone Applications in Surveying**

*Restriction: Must be an Institute of Applied Agriculture student; or permission of the Institute of Applied Agriculture. Additional information: Course is open to Institute of Applied Agriculture students and permission will be granted to other students based on available seats, with priority given to students from majors in the College of Agriculture and Natural Resources.*

*The principles of land measurement using Global Positioning System (GPS) devices and Unmanned Aerial Vehicles (UAVs--i.e. drones) to collect data and generate maps. Students will use Pix4D and Trimble TerraFlex software to post-process collected data and learn how we can use this data to make informed land management decisions. Students will also be prepared to successfully earn their Part 107 Commercial Drone Pilots License as part of the course.*

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|---|---|---|---|
| 0101 | Thomas Mazzone | Seats (Total: 8) | |
| | W 1:00pm - 1:50pm | ANS 0504 | |
| | F 11:00am - 2:00pm | ANS 0504 | |

**INAG242 Golf Course Design and Construction**

*An appreciation and understanding of the game of golf is obtained through lectures on the history, organizations, and rules of the game. Golf course design theories, great architects and their courses, and construction specifications are discussed. Students will complete two golf course design projects.*

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|---|---|---|---|
| 0101 | Kenneth Ingram<br>MW 2:00pm - 2:50pm<br>W 3:00pm - 4:50pm | Seats (Total: 25)<br>JUL 1111<br>JUL 1111 | <br><br>Lab |

**INAG250** **Fundamentals of Agricultural Mechanics**

*Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources OR Permission of AGNR-Institute of Applied Agriculture Department. Credit only granted for: PLSC204 or INAG250. Additional information: Priority given to IAA majors and AGNR students whose major requires this course. Permission will be granted to other students on seats available basis.*

*A comprehensive course that teaches the fundamentals of agricultural related mechanics. Lecture and lab exercises will cover the broad range of topics associated with agricultural mechanics including electricity, plumbing, welding processes, and wood and metal working applications. Emphasis will be given to the design and installation of electrical circuits. It will also include project planning and implementation including development of safety protocols for each area of study and introduction of GPS equipment and software for survey data collection.*

Students must pay a $75 course materials fee.

| | | |
|---|---|---|
| 0101 | Thomas Mazzone<br>MW 9:30am - 12:20pm | Seats (Total: 20)<br>ANS 0504 |
| 0201 | Thomas Mazzone<br>TuTh 9:30am - 12:20pm | Seats (Total: 20)<br>ANS 0504 |
| 0301 | Thomas Mazzone<br>TuTh 2:00pm - 4:50pm | Seats (Total: 20)<br>ANS 0504 |

**INAG251** **Landscape Construction**

*Prerequisite: INAG250 or PLSC204. Restriction: Must be in a major in AGNR-College of Agriculture & Natural Resources. Additional information: Priority enrollment is given to Landscape Management majors in the Institute of Applied Agriculture.*

*An introductory course in the basics of hardscape topics in landscape construction. Covers fundamental construction layout using surveying techniques; GPS; elements of construction dealing with wood, concrete, masonry, pavers, and/or electrical amenities used in hardscape construction. Emphasis will be placed on safety, interpretation of construction drawings or plans, specifications for specific structures, materials selection, cost estimations, site preparation and typical construction techniques.*

| | | |
|---|---|---|
| 0101 | Thomas Mazzone<br>W 2:00pm - 6:00pm | Seats (Total: 25)<br>ANS 0504 |

**INAG252** **Agricultural Public Relations**

*Recommended: INAG103.*

*Introduces the fundamental concepts and procedures of public relations in agriculture. Topics include understanding external audiences; key practices in agricultural media relations, social media, executive communication, and crisis communication; and managing the research, planning, and evaluation aspects of the public relations process. Students will gain the public relations knowledge and skills necessary for communicating effectively with an organization's external audiences.*

| | | |
|---|---|---|
| 0101 | Eric Dunning<br>TuTh 9:30am - 10:45am | Seats (Total: 25)<br>JUL 1123 |

**INAG288** **Internship**

*On-site internship training in the student's major area of study. Students must complete a minimum of 320 working hours at an approved work site. Course work also includes weekly written assignments and a site visit assessment.*

| | | |
|---|---|---|
| 0101 | Geoffrey Rinehart<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0201 | Meredith Epstein<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0301 | Kenneth Ingram<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0401 | Dane Grossnickle<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0501 | Heather McHale<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0601 | Thomas Mazzone<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0701 | Rebecka Tetter<br>Contact instructor or department for details. | Seats (Total: 5) |

**INAG289** **Internship Experience & Professional Development**

*Professional development and reflective analysis of the experience from the Practicum (INAG 288). Based on their 320-hours of internship work experience, students will write an internship report and analysis, deliver an oral presentation, and develop professional skills and materials needed to enter their careers.*

Prerequisite: INAG288. Restriction: Must be enrolled in the Institute of Applied Agriculture students; or permission of the Institute of Applied Agriculture.

| | | |
|---|---|---|
| 0101 | Rebecka Tetter<br>M 3:00pm - 5:50pm | Seats (Total: 50)<br>BPS 1236 |

# INFM Information Management Fall 2024

**INFM600** **Information Environments**

*Restriction: Permission of INFO-College of Information Studies.*

*An exploration of various models and methodologies used to capture and deploy internal and external information and knowledge in a number of settings; organizational analysis in terms of information creation, flow, sharing, conservation, and application to problem solving; internal and external influences on the management of information and knowledge; various information flows; information management in a variety of settings.*

| | | |
|---|---|---|
| IM01 | Ping Wang<br>M 6:00pm - 8:45pm | Seats (Total: 30)<br>HBK 0302H |
| IM02 | Ping Wang<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE |

**INFM603** **Information Technology and Organizational Context**

*Restriction: Must not have completed LBSC671 or LBSC690; and permission of INFO-College of Information Studies.*

*Application of communication and information technologies to support work processes, including technology-enhanced communication networks, computer-supported collaborative work, decision-support systems, interactive systems, and systems analysis. Acquisition of information systems and their integration into the organization.*

| | | |
|---|---|---|
| IM01 | Douglas Oard<br>W 6:00pm - 8:45pm | Seats (Total: 40)<br>HBK 0302J |

**INFM620** **Introduction to Strategic Information Management**

*Prerequisite: INFM612; or LBSC631; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.*

*Strategic management is the comprehensive collection of tasks, activities, and processes organizations use to coordinate and align resources and actions with its mission, vision, and strategy. Due to changes occurring in our global landscape, the integration of business and technology is compelling organizations to move beyond traditional, reactive, and silo-based data management approaches to a managed, predictive approach that treats information as a strategic asset and uses it to create business value. To meet challenges of this hyper-competitive environment, this course will provide you with an introduction to the strategic management of information assets for competitive differentiation and sustained business success.*

| | | |
|---|---|---|
| IM01 | Ping Wang | Seats (Total: 40) |
| | Class time/details on ELMs | ONLINE |

**INFM719** **Independent Study**

(Perm req)

*Intensive individual study under faculty supervision.*

**Contact department for information to register for this course.**

**INFM737** **Information Management Capstone Experience**

*Prerequisite: INFM736; and must have earned a minimum of 27 credits in the MIM Program. Or permission of instructor. Restriction: Must be in Information Management (Master's) program; and permission of INFO-College of Information Studies.*

*The Information Management Capstone Experience I and II are the culminating experience of the Master of Information Management program, taken in the students final two semesters. The capstone experience provide students with the opportunity to integrate and synthesize the knowledge and skills acquired throughout their MIM course work while working in a real world Information Management project. These courses must be taken in succession.*

| | | |
|---|---|---|
| IM01 | David Loshin | Seats (Total: 40) |
| | Th 2:00pm - 4:45pm | HBK 0302J |

# INST Information Studies Fall 2024

**INST101** **Bits and Bytes of Computer and Information Sciences**

*Restriction: For first time freshmen and first time transfer students; or permission of CMNS-Computer Science department. Cross-listed with: CMSC100. Credit only granted for: CMSC100 or INST101.*

*Students are introduced to the fields (and disciplines) of computer science and information science within a small classroom setting. They will learn to make a successful transition from high school to the university, while exploring study skills, student success plans and research opportunities.*

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|---|---|---|
| 0101 | Shantelle Aidoo | Seats (Total: 35) |
| | Tu 4:00pm - 4:50pm | IRB 1207 |

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|---|---|---|---|
| 0201 | Nicole Lemme<br>W 9:00am - 9:50am | Seats (Total: 35)<br>IRB 1207 | |
| 0301 | Rolda Charles<br>M 3:00pm - 3:50pm | Seats (Total: 35)<br>CSI 3118 | |
| 0401 | Keren Ding<br>F 1:00pm - 1:50pm | Seats (Total: 35)<br>IRB 2207 | |

**INST104** **Design Across Campus**

*What is design, who does it, and how is it done? There is no one answer to this question--it depends on who you ask. The answers to these questions vary across disciplines and across the University campus. This course, designed with modules from contributors in UMD programs including Information Studies, Human-Computer Interaction, Graphic Design, Immersive Media Arts, Journalism, Architecture, Landscape Architecture, Engineering, and Policy, will introduce students to the goals and values, approaches, skills, and practices of diverse fields of design. It will enable students to identify grand challenges in design and serve as a sorting hat to help students find a design practice that matches their own values, approaches, skills and goals.*

| | | | |
|---|---|---|---|
| 0101 | Francesca Polito<br>Tu 2:00pm - 4:45pm | Seats (Total: 165)<br>ONLINE | |
| 0201 | Marilyn Iriarte Santacruz<br>MW 3:30pm - 4:45pm | Seats (Total: 100)<br>TWS 0320 | |
| 0301 | Elia Shahbazi<br>Th 6:00pm - 8:45pm<br>Class time/details on ELMs<br>*Meets in-person on the following dates: Aug. 29, Sept. 12, Sept. 26, Oct. 10, Oct. 24, Nov. 7, Nov. 21, and Dec. 5.* | Seats (Total: 70)<br>Location: TBA<br>ONLINE | |

**INST123** **Databases for All**

*Restriction: Must not have completed or be currently taking INST327 or BMGT402.*

*An introduction to relational databases for students with no previous programming experience. Provides a means for students of diverse backgrounds to successfully learn how to store, retrieve, and maintain data in relational databases. Topics include a brief comparison of database systems with an emphasis on relational databases, fundamental relational database concepts, and data types. Includes technical approaches to accessing information stored in relational databases.*

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|---|---|---|---|
| 0101 | Srikanth Parvathala<br>Tu 12:30pm - 1:45pm<br>Th 9:30am - 10:45am | Seats (Total: 49)<br>KEY 0106<br>HBK 0103 | Discussion |

| | | | |
|---|---|---|---|
| 0102 | Srikanth Parvathala<br>Tu 12:30pm - 1:45pm<br>Th 11:00am - 12:15pm | Seats (Total: 49)<br>KEY 0106<br>HBK 0103 | <br><br>Discussion |
| 0103 | Srikanth Parvathala<br>Tu 12:30pm - 1:45pm<br>Th 12:30pm - 1:45pm | Seats (Total: 49)<br>KEY 0106<br>HBK 0103 | <br><br>Discussion |

**INST126** **Introduction to Programming for Information Science**

*Prerequisite: Math placement of STAT100 or higher. Restriction: Must not have completed INST326; and must be in Information Science, Technology and Information Design, or Social Data Science programs.*

*An introduction to computer programming for students with very limited or no previous programming experience. Topics include fundamental programming concepts such as variables, data types, assignments, arrays, conditionals, loops, functions, and I/O operations.*

| | | | |
|---|---|---|---|
| 0102 | Giovanni Luca Ciampaglia<br>TuTh 9:30am - 10:45am | Seats (Total: 40)<br>TWS 1310 | |
| 0103 | Scott Jackson<br>TuTh 3:30pm - 4:45pm | Seats (Total: 50)<br>ATL 2428 | |
| 0104 | Joel Chan<br>MWF 10:00am - 10:50am | Seats (Total: 60)<br>HJP 2242 | |
| 0105 | Mohammad Ali<br>MWF 2:00pm - 2:50pm | Seats (Total: 48)<br>LEF 2166 | |
| 0201 | Scott Jackson<br>Th 2:00pm - 3:15pm<br>Class time/details on ELMs<br>M 8:00am - 8:50am | Seats (Total: 40)<br>ESJ 2208<br>ONLINE<br>HBK 0103 | <br><br><br>Discussion |
| 0202 | Scott Jackson<br>Th 2:00pm - 3:15pm<br>Class time/details on ELMs<br>M 9:00am - 9:50am | Seats (Total: 40)<br>ESJ 2208<br>ONLINE<br>HBK 0103 | <br><br><br>Discussion |

| | | | |
|---|---|---|---|
| 0203 | Scott Jackson<br>Th 2:00pm - 3:15pm<br>Class time/details on ELMs<br>M 10:00am - 10:50am | Seats (Total: 40)<br>ESJ 2208<br>ONLINE<br>HBK 0103 | <br><br><br>Discussion |
| 0204 | Scott Jackson<br>Th 2:00pm - 3:15pm<br>Class time/details on ELMs<br>M 11:00am - 11:50am | Seats (Total: 40)<br>ESJ 2208<br>ONLINE<br>HBK 0103 | <br><br><br>Discussion |

**INST151** **Becoming A Social Media Influencer**

*Credit only granted for: INST408N or INST151. Formerly: INST408N.*

*Teaches students how to create, grow, and manage influential social media accounts. Topics will include tools for content creation, analyzing and strategizing with analytics, building community, and defining their niche and approach.*

| | | |
|---|---|---|
| 0101 | Jennifer Golbeck<br>Class time/details on ELMs | Seats (Total: 115)<br>ONLINE |

**INST152** **"Fake Checking": Battling Misinformation and Disinformation in the Real World**

*Examining the phenomenon of "fake news" using the principles of information literacy, students will develop their skills in locating, analyzing, and evaluating different information sources -- in the classroom, in their personal lives, and in the workplace.*

| | | |
|---|---|---|
| 0101 | Alison Harding<br>TuTh 3:30pm - 4:45pm | Seats (Total: 150)<br>BPS 1250 |

**INST153** **Records Scandals & Data Vandals: Public & Private Sector Controversies Ripped From The Headlines**

*Expressly organized around case studies about well-known individuals and organizations involved in scandals and controversies that have generated headlines around the world. It places these events in a larger historical, legal, technological, ethical and societal context. Drawing upon contemporaneous records in a variety of media, as well as presentations from invited speakers representing the greater archival, historical, and public interest communities, the course seeks to deepen students' appreciation of the role that records and information plays in issues going to the heart of government transparency, corporate accountability, and social justice.*

| | | |
|---|---|---|
| 0101 | Jason Baron<br>Tu 2:00pm - 3:30pm<br>Class time/details on ELMs | Seats (Total: 100)<br>ONLINE<br>ONLINE |

**INST155** **Social Networking**

*Credit only granted for: INFM289I or INST155. Formerly: INFM289I.*

*Introduces methods for analyzing and understanding how people use social media - social networking websites, blogging and microblogging, and other forms of online interaction and content generation - and their societal implications. Introduces students to the science and social science of network analysis. Through real world examples, including analysis of their own social networks, students develop skills for describing and understanding the patterns and usage of services like Facebook, Twitter, YouTube, and others.*

| | | | |
|---|---|---|---|
| 0101 | Hananya Cohen<br>Class time/details on ELMs | Seats (Total: 150)<br>ONLINE | |

**INST201** **Introduction to Information Science**

*Credit only granted for: INST201 or INST301. Formerly: INST301.*

*Examining the effects of new information technologies on how we conduct business, interact with friends, and go through our daily lives. Understanding how technical and social factors have influenced the evolution of information society. Evaluating the transformative power of information in education, policy, and entertainment, and the dark side of these changes.*

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|---|---|---|---|
| 0101 | Dustin Smith<br>MW 9:00am - 9:50am<br>F 8:00am - 8:50am | Seats (Total: 48)<br>MMH 1400<br>CCC 1111 | Discussion |
| 0102 | Dustin Smith<br>MW 9:00am - 9:50am<br>F 9:00am - 9:50am | Seats (Total: 48)<br>MMH 1400<br>CCC 1111 | Discussion |
| 0103 | Dustin Smith<br>MW 9:00am - 9:50am<br>F 10:00am - 10:50am | Seats (Total: 48)<br>MMH 1400<br>CCC 1111 | Discussion |
| 0104 | Dustin Smith<br>MW 9:00am - 9:50am<br>F 11:00am - 11:50am | Seats (Total: 48)<br>MMH 1400<br>CCC 1111 | Discussion |
| 0201 | Angela Rodgers-Koukoui<br>MW 2:00pm - 2:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 50)<br>ESJ 0202<br>CCC 1111 | Discussion |
| 0202 | Angela Rodgers-Koukoui<br>MW 2:00pm - 2:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 50)<br>ESJ 0202<br>CCC 1111 | Discussion |

| | | | |
|---|---|---|---|
| 0203 | Angela Rodgers-Koukoui<br>MW 2:00pm - 2:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 50)<br>ESJ 0202<br>CCC 1111 | <br><br>Discussion |
| 0204 | Angela Rodgers-Koukoui<br>MW 2:00pm - 2:50pm<br>F 3:00pm - 3:50pm | Seats (Total: 50)<br>ESJ 0202<br>CCC 1111 | <br><br>Discussion |
| 0301 | Chad Doran<br>M 5:00pm - 6:30pm<br>Class time/details on ELMs<br>F 1:00pm - 1:50pm | Seats (Total: 40)<br>ONLINE<br>ONLINE<br>HBK 0109 | <br><br><br>Discussion |
| 0302 | Chad Doran<br>M 5:00pm - 6:30pm<br>Class time/details on ELMs<br>F 2:00pm - 2:50pm | Seats (Total: 40)<br>ONLINE<br>ONLINE<br>HBK 0109 | <br><br><br>Discussion |
| 0303 | Chad Doran<br>M 5:00pm - 6:30pm<br>Class time/details on ELMs<br>F 3:00pm - 3:50pm | Seats (Total: 40)<br>ONLINE<br>ONLINE<br>HBK 0109 | <br><br><br>Discussion |
| 0401 | Phillip Thompkins<br>MW 10:00am - 10:50am<br>F 9:00am - 9:50am | Seats (Total: 50)<br>ESJ 0202<br>ESJ 2212 | <br><br>Discussion |
| 0402 | Phillip Thompkins<br>MW 10:00am - 10:50am<br>F 10:00am - 10:50am | Seats (Total: 50)<br>ESJ 0202<br>ESJ 2212 | <br><br>Discussion |
| 0403 | Phillip Thompkins<br>MW 10:00am - 10:50am<br>F 11:00am - 11:50am | Seats (Total: 50)<br>ESJ 0202<br>ESJ 2212 | <br><br>Discussion |
| FC01 | J Stephanie Rose<br>TuTh 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 35)<br>BPS 1228 | |

**INST204** **Designing Fair Systems**

*Credit only granted for: INST208D or INST204. Formerly: INST208D.*

*Reviews how specific values are built into different automated decision-making systems as an inevitable result of constructing mechanisms meant to produce specific outcomes. These values create differential outcomes for the different people enmeshed in these systems, but both these values and these systems can be changed to support different values and different outcomes. The class serves as an introduction to the emerging field of algorithmic bias that bridges the disciplines of information science, computer science, law, policy, philosophy, sociology, urban planning, and others.*

| | | |
|---|---|---|
| 0101 | Wayne Lutters | Seats (Total: 75) |
| | Tu 2:00pm - 3:15pm<br>Th 2:00pm - 3:15pm | CCC 1100<br>KEB 1110 |

**INST204S** **Designing Fair Systems**

*Credit only granted for: INST208D or INST204. Formerly: INST208D.*

*Reviews how specific values are built into different automated decision-making systems as an inevitable result of constructing mechanisms meant to produce specific outcomes. These values create differential outcomes for the different people enmeshed in these systems, but both these values and these systems can be changed to support different values and different outcomes. The class serves as an introduction to the emerging field of algorithmic bias that bridges the disciplines of information science, computer science, law, policy, philosophy, sociology, urban planning, and others.*

Restriction: Must be in the College Park Scholars program.

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|---|---|---|
| 0101 | Pamela Duffy | Seats (Total: 75) |
| | TuTh 9:30am - 10:45am | CCC 1205 |

**INST210** **The Nuts & Bolts of Getting Hired**

*Restriction: Must be in the Information Science program, Technology and Information Design program, or Social Data Science program. Credit only granted for: INST208C or INST210. Formerly: INST208C.*

*Have you thought about finding an internship, getting a job, or starting your career? Perhaps you're confused about how to begin. Welcome to The Nuts and Bolts of Getting Hired, where you'll learn the skills necessary to develop your professional tool kit and obtain the internship or job that can help you build the career you want. This course will help you prepare for the next step in your career by exploring the following topics: Identifying your career goals, mastering the skills of crafting a professional resume, effective interviewing, strategic networking, and professional communication.*

| | | |
|---|---|---|
| 0101 | Katy Lawley | Seats (Total: 50) |
| | Class time/details on ELMs | ONLINE |

**INST227** **Fundamentals of Academic Peer Mentoring in Information Studies**

(Perm req)

*Restriction: Permission of the College of Information Studies.*

*Students will be exposed to scholarship of teaching and learning in support of developing applied skills to support active learning as an iSchool academic peer mentor. Students will learn to effectively coach and support the performance of other people. Guided online and face-to-face participation will culminate in a portfolio of teaching activities and professional development.*

| | | |
|---|---|---|
| 0201 | Corie Brown<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE |

**INST228** **Academic Peer Mentor Experience in Information Science**

(Perm req)

*Students who are participating in instructional activities for undergraduate courses offered by the College of Information Studies, or by faculty members of the College through other units, can take this course to earn course credit for their AMP work.*

| | | |
|---|---|---|
| 0123 | Srikanth Parvathala, Corie Brown<br>Contact instructor or department for details. | Seats (Total: 15) |
| 0126 | Scott Jackson, Corie Brown<br>Contact instructor or department for details. | Seats (Total: 15) |
| 0201 | Corie Brown<br>Contact instructor or department for details. | Seats (Total: 15) |
| 0314 | Corie Brown, Samantha Kemper<br>Contact instructor or department for details. | Seats (Total: 15) |
| 0326 | Aric Bills, Corie Brown, Gabriel Cruz<br>Contact instructor or department for details. | Seats (Total: 15) |
| 0327 | Vedat Diker, Pamela Duffy, Corie Brown, Iskander Lou<br>Contact instructor or department for details. | Seats (Total: 15) |
| 0352 | Nicole Miller, Corie Brown<br>Contact instructor or department for details. | Seats (Total: 15) |

**INST232C** **Health Justice: Investigating the Roles of Information in Preventing & Addressing Health Disparities**

*Restriction: Must be a student in the Health Justice Carillon Community.*

*How do we ensure that every individual has the information they need to live a long and healthy life? In this course, we explore health justice - the conviction and enactment of the idea that every person is morally entitled to a fair and sufficient capability to be healthy. We especially focus on the ways in which information-related factors, such as people's access to health information, their strategies for seeking (or avoiding) health information, and their health and digital health literacy, contribute to health (in)justice. Our goal in this class is to promote health justice for all by identifying information-related solutions that will help to facilitate people's access to health information and improve their abilities to find, assess, and make use of information to optimize their own and others' health.*

Restricted to students in Carillon Communities

| | | |
|---|---|---|
| 0101 | Beth St Jean | Seats (Total: 45) |
| | TuTh 9:30am - 10:45am | BPS 0283 |
| | *Restricted to students in Carillon Communities. Once registered, students need an electronic stamp from an advisor to drop the course.* | |

**INST301** **Introduction to Information Science**

*Restriction: Must be in Information Science program; and restricted to students in the Information Science Program on the Universities at Shady Grove campus. Credit only granted for: INST201 or INST301.*

*Examining the effects of new information technologies on how we conduct business, interact with friends, and go through our daily lives. Understanding how technical and social factors have influenced the evolution of information society. Evaluating the transformative power of information in education, policy, and entertainment, and the dark side of these changes.*

| | | |
|---|---|---|
| ESG1 | Jacob Davidson | Seats (Total: 60) |
| | Th 9:00am - 11:45am | BLD4 5332 |
| | *Restricted to students in the Information Science Program at USG.* | |

**INST309** **Independent Study in Information Science**

(Perm req)

*Individual independent study of an aspect of information science, selected according to student interest and need in consultation with a member of the iSchool faculty. Repeatable to 6 credits if content differs.*

**Contact department for information to register for this course.**

**INST311** **Information Organization**

*Prerequisite: Minimum grade of C- in PSYC100 or SOCY105. Restriction: Must be in the Information Science program.*

*Examines the theories, concepts, and principles of information, information representation and organization, record structures, description, and classification. Topics to be covered in this course include the methods and strategies to develop systems for storage, organization, and retrieval of information in a variety of organizational and institutional settings, as well as policy, ethical, and social implications of these systems.*

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|---|---|---|---|
| 0101 | Ryan O'Grady<br>Class time/details on ELMs<br>W 8:00am - 8:50am | Seats (Total: 45)<br>ONLINE<br>HBK 0103 | Discussion |
| 0102 | Ryan O'Grady<br>Class time/details on ELMs<br>W 9:00am - 9:50am | Seats (Total: 45)<br>ONLINE<br>HBK 0103 | Discussion |
| 0103 | Ryan O'Grady<br>Class time/details on ELMs<br>W 10:00am - 10:50am | Seats (Total: 45)<br>ONLINE<br>HBK 0103 | Discussion |
| 0104 | Ryan O'Grady<br>Class time/details on ELMs<br>W 11:00am - 11:50am | Seats (Total: 45)<br>ONLINE<br>HBK 0103 | Discussion |
| 0201 | Ryan O'Grady<br>Class time/details on ELMs<br>F 12:00pm - 12:50pm | Seats (Total: 45)<br>ONLINE<br>HBK 0103 | Discussion |
| 0202 | Ryan O'Grady<br>Class time/details on ELMs<br>F 1:00pm - 1:50pm | Seats (Total: 45)<br>ONLINE<br>HBK 0103 | Discussion |
| 0203 | Ryan O'Grady<br>Class time/details on ELMs<br>F 2:00pm - 2:50pm | Seats (Total: 45)<br>ONLINE<br>HBK 0103 | Discussion |
| 0204 | Ryan O'Grady<br>Class time/details on ELMs<br>F 3:00pm - 3:50pm | Seats (Total: 45)<br>ONLINE<br>HBK 0103 | Discussion |
| 0301 | Connie Siebold<br>MW 11:00am - 11:50am<br>F 9:00am - 9:50am | Seats (Total: 40)<br>ESJ 2208<br>HBK 0109 | Discussion |

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|---|---|---|---|
| 0302 | Connie Siebold<br>MW 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 40)<br>ESJ 2208<br>HBK 0109 | Discussion |
| 0303 | Connie Siebold<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 40)<br>ESJ 2208<br>HBK 0109 | Discussion |
| 0304 | Connie Siebold<br>MW 11:00am - 11:50am<br>F 12:00pm - 12:50pm | Seats (Total: 40)<br>ESJ 2208<br>HBK 0109 | Discussion |
| ESG1 | Galina Reitz<br>W 10:00am - 12:30pm<br>Class time/details on ELMs<br>*Restricted to students in the Information Science Program at USG.* | Seats (Total: 60)<br>BLD4 1201<br>ONLINE | Discussion |

**INST314** **Statistics for Information Science**

*Prerequisite: Minimum grade of C- in INST126 or GEOG276; and minimum grade of C- in STAT100, and MATH115 (or higher). Restriction: Must be in Information Science or Social Data Science program.*

*Basic concepts in statistics including measure construction, data exploration, hypothesis development, hypothesis testing, pattern identification, and statistical analysis. The course also provides an overview of commonly used data manipulation and analytic tools. Through homework assignments, projects, and in-class activities, you will practice working with these techniques and tools to create information resources that can be used in individual and organizational decision-making and problem-solving.*

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|---|---|---|---|
| 0101 | Samantha Kemper<br>MW 11:00am - 11:50am<br>F 8:00am - 8:50am | Seats (Total: 45)<br>EGR 1202<br>HBK 0103 | Discussion |
| 0102 | Samantha Kemper<br>MW 11:00am - 11:50am<br>F 9:00am - 9:50am | Seats (Total: 45)<br>EGR 1202<br>HBK 0103 | Discussion |
| 0103 | Samantha Kemper<br>MW 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 45)<br>EGR 1202<br>HBK 0103 | Discussion |
| 0104 | Samantha Kemper<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 45)<br>EGR 1202<br>HBK 0103 | Discussion |

| | | | |
|---|---|---|---|
| 0201 | Samantha Kemper<br>MW 2:00pm - 2:50pm<br>Th 2:00pm - 2:50pm | Seats (Total: 45)<br>JMZ 0220<br>HBK 0103 | Discussion |
| 0202 | Samantha Kemper<br>MW 2:00pm - 2:50pm<br>Th 3:00pm - 3:50pm | Seats (Total: 45)<br>JMZ 0220<br>HBK 0103 | Discussion |
| 0203 | Samantha Kemper<br>MW 2:00pm - 2:50pm<br>Th 4:00pm - 4:50pm | Seats (Total: 40)<br>JMZ 0220<br>HBK 0103 | Discussion |
| 0204 | Samantha Kemper<br>MW 2:00pm - 2:50pm<br>Th 5:00pm - 5:50pm | Seats (Total: 40)<br>JMZ 0220<br>HBK 0103 | Discussion |
| ESG1 | Faisal Quader<br>Tu 9:00am - 10:30am<br>Class time/details on ELMs<br>*Restricted to students in the Information Science Program at USG.* | Seats (Total: 60)<br>BLD4 5332<br>ONLINE | |

**INST320** **Leadership in Collaborative Learning Communities for Information Studies**

(Perm req)

*Restriction: Must be in the Information Science, Technology and Information Design, or Social Data Science program; and permission of the INFO College.*

*This course is the experiential learning component for student leaders selected by the College of Information Studies to facilitate Guided Study Sessions. Student leaders plan and facilitate study sessions that supplement courses by providing additional opportunities to engage with the material. In this course, student leaders will explore and apply evidence-based learning strategies while developing an understanding of how we learn. Throughout this course you will apply principles of teaching and learning, group facilitation, and leadership into the design of your guided study session.*

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|---|---|---|
| 0101 | Donal Heidenblad<br>Contact instructor or department for details. | Seats (Total: 20) |

**INST326** **Object-Oriented Programming for Information Science**

*Prerequisite: Minimum grade of C- in INST126 or GEOG276. Restriction: Must be in Information Science or Social Data Science program.*

*An introduction to programming, emphasizing understanding and implementation of applications using object-oriented techniques. Topics to be covered include program design and testing as well as implementation of programs.*

Students who wish to register should contact the College of Information Studies.

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|---|---|---|---|
| 0102 | Aric Bills<br>MWF 10:00am - 10:50am | Seats (Total: 75)<br>CCC 1205 | |
| 0103 | Aric Bills<br>MWF 9:00am - 9:50am | Seats (Total: 75)<br>CCC 1205 | |
| 0104 | Christopher Dempwolf<br>TuTh 9:30am - 10:45am | Seats (Total: 75)<br>CCC 1100 | |
| 0201 | Christopher Dempwolf<br>Tu 5:00pm - 6:15pm<br>Th 12:30pm - 1:45pm | Seats (Total: 40)<br>ONLINE<br>HBK 0109 | <br><br>Discussion |
| 0202 | Christopher Dempwolf<br>Tu 5:00pm - 6:15pm<br>Th 2:00pm - 3:15pm | Seats (Total: 40)<br>ONLINE<br>HBK 0109 | <br><br>Discussion |
| 0203 | Christopher Dempwolf<br>Tu 5:00pm - 6:15pm<br>Th 3:30pm - 4:45pm | Seats (Total: 40)<br>ONLINE<br>HBK 0109 | <br><br>Discussion |
| 0301 | Gabriel Cruz<br>Tu 3:30pm - 4:45pm<br>W 9:30am - 10:45am | Seats (Total: 40)<br>ONLINE<br>HBK 0109 | <br><br>Discussion |
| 0302 | Gabriel Cruz<br>Tu 3:30pm - 4:45pm<br>W 11:00am - 12:15pm | Seats (Total: 40)<br>ONLINE<br>HBK 0109 | <br><br>Discussion |
| 0303 | Gabriel Cruz<br>Tu 3:30pm - 4:45pm<br>W 12:30pm - 1:45pm | Seats (Total: 40)<br>ONLINE<br>HBK 0109 | <br><br>Discussion |
| ESG1 | William Farmer<br>F 9:00am - 10:30am<br>Class time/details on ELMs<br><br>*Restricted to students in the Information Science Program at USG.* | Seats (Total: 60)<br>BLD4 4335<br>ONLINE | |

**INST327 Database Design and Modeling**

*Prerequisite: Minimum grade of C- in INST126 or GEOG276. Restriction: Must be in Information Science or Social Data Science program. Credit only granted for: INST327 or BMGT402.*

*Introduction to databases, the relational model, entity-relationship diagrams, user-oriented database design and normalization, and Structured Query Language (SQL). Through labs, tests, and a project, students develop both theoretical and practical knowledge of relational database systems.*

Students who wish to register should contact the College of Information Studies.

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|---|---|---|---|
| 0101 | Vedat Diker, Pamela Duffy<br>W 10:00am - 10:50am<br>Class time/details on ELMs<br>F 9:00am - 9:50am | Seats (Total: 45)<br>EGR 1202<br>ONLINE<br>KEY 0103 | Discussion |
| 0102 | Vedat Diker, Pamela Duffy<br>W 10:00am - 10:50am<br>Class time/details on ELMs<br>F 10:00am - 10:50am | Seats (Total: 45)<br>EGR 1202<br>ONLINE<br>KEY 0103 | Discussion |
| 0103 | Pamela Duffy, Vedat Diker<br>W 10:00am - 10:50am<br>Class time/details on ELMs<br>F 11:00am - 11:50am | Seats (Total: 45)<br>EGR 1202<br>ONLINE<br>KEY 0103 | Discussion |
| 0104 | Pamela Duffy, Vedat Diker<br>W 10:00am - 10:50am<br>Class time/details on ELMs<br>F 12:00pm - 12:50pm | Seats (Total: 45)<br>EGR 1202<br>ONLINE<br>KEY 0103 | Discussion |
| 0201 | Pamela Duffy, Vedat Diker<br>Th 11:00am - 11:50am<br>Class time/details on ELMs<br>F 1:00pm - 1:50pm | Seats (Total: 45)<br>HJP 0226<br>ONLINE<br>KEY 0103 | Discussion |
| 0202 | Vedat Diker, Pamela Duffy<br>Th 11:00am - 11:50am<br>Class time/details on ELMs<br>F 2:00pm - 2:50pm | Seats (Total: 45)<br>HJP 0226<br>ONLINE<br>KEY 0103 | Discussion |
| 0203 | Vedat Diker, Pamela Duffy<br>Th 11:00am - 11:50am<br>Class time/details on ELMs<br>F 3:00pm - 3:50pm | Seats (Total: 45)<br>HJP 0226<br>ONLINE<br>KEY 0103 | Discussion |

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|---|---|---|---|
| 0204 | Vedat Diker, Pamela Duffy<br>Th 11:00am - 11:50am<br>Class time/details on ELMs<br>F 4:00pm - 4:50pm | Seats (Total: 45)<br>HJP 0226<br>ONLINE<br>KEY 0103 | Discussion |
| 0301 | Iskander Lou<br>F 11:00am - 11:50am<br>Class time/details on ELMs<br>M 9:00am - 9:50am | Seats (Total: 40)<br>EGR 1202<br>ONLINE<br>HBK 0302H | Discussion |
| 0302 | Iskander Lou<br>F 11:00am - 11:50am<br>Class time/details on ELMs<br>M 10:00am - 10:50am | Seats (Total: 40)<br>EGR 1202<br>ONLINE<br>HBK 0302H | Discussion |
| 0303 | Iskander Lou<br>F 11:00am - 11:50am<br>Class time/details on ELMs<br>M 11:00am - 11:50am | Seats (Total: 40)<br>EGR 1202<br>ONLINE<br>HBK 0302H | Discussion |

**INST335** **Organizations, Management and Teamwork**

*Prerequisite: 1 course with a minimum grade of C- from (INST201, INST301); and minimum grade of C- in PSYC100. Restriction: Must be in Information Science program.*

*Examines principles, methods and types of leadership with an emphasis on goal setting, motivation, problem solving, and conflict resolution. Examines principles of developing teams and managing team projects through planning and execution, including estimating costs, managing risks, scheduling, staff and resource allocation, communication, tracking, and control. Trains students to recognize and capitalize on opportunities to use information to increase efficiency, improve performance, and support innovation within teams and organizations. Focuses on strategic use of emerging technologies and new information resources to execute information-enabled change.*

Students who wish to register should contact the College of Information Studies.

| | | | |
|---|---|---|---|
| 0101 | Susannah Paletz<br>MW 12:00pm - 12:50pm<br>Th 8:00am - 8:50am | Seats (Total: 30)<br>ONLINE<br>HBK 0105 | Discussion |
| 0102 | Susannah Paletz<br>MW 12:00pm - 12:50pm<br>Th 9:30am - 10:20am | Seats (Total: 30)<br>ONLINE<br>HBK 0105 | Discussion |

| | | | |
|---|---|---|---|
| 0103 | Susannah Paletz<br>MW 12:00pm - 12:50pm<br>Th 11:00am - 11:50am | Seats (Total: 30)<br>ONLINE<br>HBK 0105 | Discussion |
| 0104 | Susannah Paletz<br>MW 12:00pm - 12:50pm<br>Th 12:30pm - 1:20pm | Seats (Total: 30)<br>ONLINE<br>HBK 0105 | Discussion |
| 0105 | Susannah Paletz<br>MW 12:00pm - 12:50pm<br>Th 2:00pm - 2:50pm | Seats (Total: 30)<br>ONLINE<br>HBK 0105 | Discussion |
| 0201 | Kibbi Henderson, Srikanth Parvathala<br>TuTh 9:30am - 10:20am<br>F 12:00pm - 12:50pm | Seats (Total: 30)<br>ESJ 2208<br>HBK 0302J | Discussion |
| 0202 | Kibbi Henderson, Srikanth Parvathala<br>TuTh 9:30am - 10:20am<br>F 1:00pm - 1:50pm | Seats (Total: 30)<br>ESJ 2208<br>HBK 0302J | Discussion |
| 0203 | Srikanth Parvathala, Kibbi Henderson<br>TuTh 9:30am - 10:20am<br>F 2:00pm - 2:50pm | Seats (Total: 30)<br>ESJ 2208<br>HBK 0105 | Discussion |
| 0204 | Srikanth Parvathala, Kibbi Henderson<br>TuTh 9:30am - 10:20am<br>F 3:00pm - 3:50pm | Seats (Total: 30)<br>ESJ 2208<br>HBK 0105 | Discussion |
| 0205 | Srikanth Parvathala, Kibbi Henderson<br>TuTh 9:30am - 10:20am<br>F 4:00pm - 4:50pm | Seats (Total: 30)<br>ESJ 2208<br>HBK 0105 | Discussion |
| 0301 | Susannah Paletz<br>MW 9:00am - 9:50am<br>W 12:00pm - 12:50pm | Seats (Total: 30)<br>ONLINE<br>HBK 0115 | Discussion |
| 0302 | Susannah Paletz<br>MW 9:00am - 9:50am<br>W 1:00pm - 1:50pm | Seats (Total: 30)<br>ONLINE<br>HBK 0115 | Discussion |

| | | | |
|---|---|---|---|
| 0303 | Susannah Paletz<br>MW 9:00am - 9:50am<br>W 2:00pm - 2:50pm | Seats (Total: 30)<br>ONLINE<br>HBK 0115 | Discussion |
| 0304 | Susannah Paletz<br>MW 9:00am - 9:50am<br>W 3:00pm - 3:50pm | Seats (Total: 30)<br>ONLINE<br>HBK 0115 | Discussion |
| 0305 | Susannah Paletz<br>MW 9:00am - 9:50am<br>W 4:00pm - 4:50pm | Seats (Total: 30)<br>ONLINE<br>HBK 0115 | Discussion |
| 0401 | Francesca Polito<br>TuTh 12:30pm - 1:45pm | Seats (Total: 75)<br>ONLINE | |
| ESG1 | Galina Reitz<br>M 10:00am - 12:30pm<br>Class time/details on ELMs<br>*Restricted to students in the Information Science Program at USG.* | Seats (Total: 60)<br>BLD3 3241<br>ONLINE | |

**INST341** **Introduction to Digital Curation**

*Prerequisite: Must have completed with a C- or higher, or be concurrently enrolled in INST311. Restriction: Must be in Technology and Information Design or Information Science programs.*

*Explores various dimensions and contexts for digital curation, which includes all activities involving the management, representation and preservation of both born-digital and digitized information. Focuses on opportunities, challenges and demands of every-increasing digital data and networked information infrastructure.*

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|---|---|---|
| 0101 | Jwan Al Faili<br>TuTh 3:30pm - 4:45pm | Seats (Total: 50)<br>BPS 1236 |
| 0102 | Dina Herbert<br>M 10:00am - 11:15am<br>W 10:00am - 11:15am | Seats (Total: 50)<br>SQH 1117<br>ONLINE |

**INST346** **Technologies, Infrastructure and Architecture**

(Perm req)

*Prerequisite: Minimum grade of C- from INST201 or INST301; and minimum grade of C- in INST326 and INST327. Restriction: Must be in the Information Science program; and must have earned a minimum of 60 credits. Credit only granted for: INST346 or BMGT405.*

*Examines the basic concepts of computer hardware, systems software, networking, client/server architectures, cloud computing, distributed systems, and high performance computing as applied to information rich domains. Technology and architectures will be discussed within the contexts of solving social issues, supportingscience, and conducting business operations. Current computing topics such as web environments, IoT, security, management, and policy will also be reviewed.*

Students who wish to register should contact the College of Information Studies.

| | | | |
|---|---|---|---|
| 0101 | Donal Heidenblad<br>MW 9:00am - 9:50am<br>F 8:00am - 8:50am | Seats (Total: 40)<br>ONLINE<br>HBK 0302H | Discussion |
| 0102 | Donal Heidenblad<br>MW 9:00am - 9:50am<br>F 9:00am - 9:50am | Seats (Total: 40)<br>ONLINE<br>HBK 0302H | Discussion |
| 0103 | Donal Heidenblad<br>MW 9:00am - 9:50am<br>F 10:00am - 10:50am | Seats (Total: 40)<br>ONLINE<br>HBK 0302H | Discussion |
| 0104 | Donal Heidenblad<br>MW 9:00am - 9:50am<br>F 11:00am - 11:50am | Seats (Total: 40)<br>ONLINE<br>HBK 0302H | Discussion |
| 0201 | Dennis Frezzo<br>MW 1:00pm - 1:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 40)<br>ONLINE<br>HBK 0302H | Discussion |
| 0202 | Dennis Frezzo<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 40)<br>ONLINE<br>HBK 0302H | Discussion |
| 0203 | Dennis Frezzo<br>MW 1:00pm - 1:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 40)<br>ONLINE<br>HBK 0302H | Discussion |
| 0204 | Dennis Frezzo<br>MW 1:00pm - 1:50pm<br>F 3:00pm - 3:50pm | Seats (Total: 40)<br>ONLINE<br>HBK 0302H | Discussion |
| 0301 | Donal Heidenblad<br>MW 10:00am - 10:50am<br>Th 8:00am - 8:50am | Seats (Total: 40)<br>ONLINE<br>HBK 0302H | Discussion |

| | | | |
|---|---|---|---|
| 0302 | Donal Heidenblad<br>MW 10:00am - 10:50am<br>Th 9:00am - 9:50am | Seats (Total: 40)<br>ONLINE<br>HBK 0302H | Discussion |
| 0303 | Donal Heidenblad<br>MW 10:00am - 10:50am<br>Th 10:00am - 10:50am | Seats (Total: 40)<br>ONLINE<br>HBK 0302H | Discussion |
| 0304 | Donal Heidenblad<br>MW 10:00am - 10:50am<br>Th 11:00am - 11:50am | Seats (Total: 40)<br>ONLINE<br>HBK 0302H | Discussion |
| ESG1 | Dennis Frezzo<br>MW 9:00am - 9:50am<br>F 10:00am - 10:50am<br>*Restricted to students in the Information Science Program at USG.* | Seats (Total: 25)<br>ONLINE<br>BLD4 4321 | Lab |
| ESG2 | Dennis Frezzo<br>MW 9:00am - 9:50am<br>F 11:00am - 11:50am<br>*Restricted to students in the Information Science Program at USG.* | Seats (Total: 25)<br>ONLINE<br>BLD4 4321 | Lab |

**INST347** **Cloud Computing for Information Science**

*Prerequisite: Minimum grade of C- in INST346. Restriction: Must be in the Information Science major.*

*What is cloud computing? Where does cloud computing occur? How can we use cloud computing to solve problems and create opportunities in information science? In this course, the foundations and operation of cloud computing, with a focus on information science applications, will be presented. Key cloud functions such as computing, storage, databases, and networking will be examined. Major cloud providers will be contrasted. The course will conclude with a practical application of cloud services to design and implement a cloud solution to a social, technical, or environmental problem.*

| | | |
|---|---|---|
| 0101 | Dennis Frezzo<br>F 2:00pm - 4:45pm | Seats (Total: 60)<br>ESJ 0215 |

**INST352** **Information User Needs and Assessment**

*Prerequisite: Minimum grade of C- from INST201 or INST301; and minimum grade of C- in INST311. Restriction: Must be in Technology and Information Design or Information Science programs.*

*Focuses on use of information by individuals, including the theories, concepts, and principles of information, information behavior and mental models. Methods for determining information behavior and user needs, including accessibility issues will be examined and strategies for using information technology to support individual users and their specific needs will be explored.*

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|---|---|---|---|
| 0201 | Nicole Miller<br>MW 9:00am - 9:50am<br>F 9:00am - 9:50am | Seats (Total: 40)<br>ESJ 0224<br>EGR 1104 | <br><br>Discussion |
| 0202 | Nicole Miller<br>MW 9:00am - 9:50am<br>F 10:00am - 10:50am | Seats (Total: 40)<br>ESJ 0224<br>EGR 1104 | <br><br>Discussion |
| 0203 | Nicole Miller<br>MW 9:00am - 9:50am<br>F 11:00am - 11:50am | Seats (Total: 40)<br>ESJ 0224<br>EGR 1104 | <br><br>Discussion |
| 0204 | Nicole Miller<br>MW 9:00am - 9:50am<br>F 12:00pm - 12:50pm | Seats (Total: 40)<br>ESJ 0224<br>EGR 1104 | <br><br>Discussion |
| 0301 | Vera Rhoads<br>TuTh 1:00pm - 1:50pm<br>F 11:00am - 11:50am | Seats (Total: 40)<br>ONLINE<br>CCC 1200 | <br><br>Discussion |
| 0302 | Vera Rhoads<br>TuTh 1:00pm - 1:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 40)<br>ONLINE<br>CCC 1200 | <br><br>Discussion |
| 0303 | Vera Rhoads<br>TuTh 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 40)<br>ONLINE<br>CCC 1200 | <br><br>Discussion |
| 0304 | Vera Rhoads<br>TuTh 1:00pm - 1:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 40)<br>ONLINE<br>CCC 1200 | <br><br>Discussion |
| 0401 | Miranda Downey<br>Th 12:30pm - 1:45pm<br>Class time/details on ELMs<br>M 9:00am - 9:50am | Seats (Total: 38)<br>TMH 0301<br>ONLINE<br>HBK 0109 | <br><br><br>Discussion |
| 0402 | Miranda Downey<br>Th 12:30pm - 1:45pm<br>Class time/details on ELMs<br>M 10:00am - 10:50am | Seats (Total: 38)<br>TMH 0301<br>ONLINE<br>HBK 0109 | <br><br><br>Discussion |

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|---|---|---|---|
| 0403 | Miranda Downey<br>Th 12:30pm - 1:45pm<br>Class time/details on ELMs<br>M 11:00am - 11:50am | Seats (Total: 38)<br>TMH 0301<br>ONLINE<br>HBK 0109 | Discussion |
| 0404 | Miranda Downey<br>Th 12:30pm - 1:45pm<br>Class time/details on ELMs<br>M 12:00pm - 12:50pm | Seats (Total: 38)<br>TMH 0301<br>ONLINE<br>HBK 0109 | Discussion |

**INST354** **Decision-Making for Information Science**

*Prerequisite: Minimum grade of C- from INST201 or INST301; and minimum grade of C- in INST314 and PSYC100. Restriction: Must be in the Information Science program.*

*Examines the use of information in organizational and individual decision-making, including the roles of information professionals and information systems in informed decision-making through techniques such as data analysis and regression, optimization, sensitivity analysis, decision trees, risk analysis and business simulation models.*

Students who wish to register should contact the College of Information Studies.

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|---|---|---|---|
| 0101 | Kathy Weaver<br>Class time/details on ELMs<br>Th 11:00am - 12:15pm | Seats (Total: 96)<br>ONLINE<br>CCC 1100 | Discussion |
| 0102 | Abdirisak Mohamed<br>M 6:00pm - 7:15pm<br>Class time/details on ELMs | Seats (Total: 100)<br>ONLINE<br>ONLINE | |

**INST362** **User-Centered Design**

*Prerequisite: Minimum grade of C- from INST201 or INST301; and minimum grade of C- from PSYC100 or SOCY105; and minimum grade of C- in INST326 and STAT100. Restriction: Must be in the Information Science program or Technology and Information Design program; and must have earned a minimum of 60 credits.*

*Introduction to human-computer interaction (HCI), with a focus on how HCI connects psychology, information systems, computer science, and human factors. User-centered design and user interface implementation methods discussed include identifying user needs, understanding user behaviors, envisioning interfaces, and utilizing prototyping tools, with an emphasis on incorporating people in the design process from initial field observations to summative usability testing.*

Students who wish to register should contact the College of Information Studies.

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|---|---|---|---|
| 0101 | Ciara Fabian<br>MW 9:00am - 9:50am<br>F 8:00am - 8:50am | Seats (Total: 40)<br>SHM 2102<br>HBK 0115 | Discussion |
| 0102 | Ciara Fabian<br>MW 9:00am - 9:50am<br>F 9:00am - 9:50am | Seats (Total: 40)<br>SHM 2102<br>HBK 0115 | Discussion |
| 0103 | Ciara Fabian<br>MW 9:00am - 9:50am<br>F 10:00am - 10:50am | Seats (Total: 40)<br>SHM 2102<br>HBK 0115 | Discussion |
| 0104 | Ciara Fabian<br>MW 9:00am - 9:50am<br>F 11:00am - 11:50am | Seats (Total: 40)<br>SHM 2102<br>HBK 0115 | Discussion |
| 0201 | Ge Gao<br>MW 2:00pm - 2:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 40)<br>MMH 1400<br>HBK 0115 | Discussion |
| 0202 | Ge Gao<br>MW 2:00pm - 2:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 40)<br>MMH 1400<br>HBK 0115 | Discussion |
| 0203 | Ge Gao<br>MW 2:00pm - 2:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 40)<br>MMH 1400<br>HBK 0115 | Discussion |
| 0204 | Ge Gao<br>MW 2:00pm - 2:50pm<br>F 3:00pm - 3:50pm | Seats (Total: 40)<br>MMH 1400<br>HBK 0115 | Discussion |
| 0301 | Rachael Bradley<br>Class time/details on ELMs<br>Th 2:00pm - 2:50pm | Seats (Total: 40)<br>ONLINE<br>HBK 0115 | Discussion |
| 0302 | Rachael Bradley<br>Class time/details on ELMs<br>Th 3:00pm - 3:50pm | Seats (Total: 40)<br>ONLINE<br>HBK 0115 | Discussion |

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| 0303 | Rachael Bradley<br>Class time/details on ELMs<br>Th 4:00pm - 4:50pm | Seats (Total: 40)<br>ONLINE<br>HBK 0115 | <br><br>Discussion |
| 0304 | Rachael Bradley<br>Class time/details on ELMs<br>Th 5:00pm - 5:50pm | Seats (Total: 40)<br>ONLINE<br>HBK 0115 | <br><br>Discussion |

**INST363** **Fundamentals of Technology Innovation**

*Restriction: Must be in the Technology Innovation Leadership Minor; or permission of INFO-College of Information Studies. Credit only granted for: INST408T or INST363. Formerly: INST408T.*

*Introduces students to the fundamentals of technology innovation, and how leaders approach innovation in the information science field. The course explores approaches and perspectives on how to develop an individual's capabilities to be better at leading others in an innovative environment. Combining theory and practice, students will be introduced to problem solving and explore ways to become an exceptional innovation leader.*

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| ESG1 | Ping Wang<br>Class time/details on ELMs<br>*Restricted to students in the BSIS @ USG Program and Technology Innovation Leadership Minor.* | Seats (Total: 60)<br>ONLINE |

**INST364** **Human-Centered Cybersecurity**

*Prerequisite: Minimum grade of C- from INST201 or INST301; and minimum grade of C- in INST327, STAT100, MATH115, and PSYC100. Restriction: Must be in the Information Science program; or must be in the Information Risk Management, Ethics, and Privacy Minor.*

*Cybersecurity is fundamentally a problem of human interaction with technology, but its technical challenges are better understood than its human challenges. This course is designed to give you an overview of human interactions with cybersecurity technology, from users to system designers. Using the information gleaned in this course, you should be able to make better predictions about how people react to cybersecurity policies and tools, and how those reactions shape organizational behavior. The earlier part of the course focuses on explanations for behavior, while the later parts of the course focus more on the development and evaluation of tools for assisting people in cybersecurity.*

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| 0101 | Susan Campbell<br>TuTh 3:30pm - 4:45pm | Seats (Total: 75)<br>TWS 0320 |

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| ESG1 | Padric Mylod<br>Th 10:30am - 12:15pm<br>Class time/details on ELMs | Seats (Total: 60)<br>ONLINE<br>ONLINE |

*Restricted to students in the BSIS @ USG Major and Information Risk Management, Ethics, and Privacy Minor.*

**INST366** **Privacy, Security and Ethics for Big Data**

*Prerequisite: Minimum grade of C- from INST126 or GEOG276; and minimum grade of C- in STAT100; and minimum grade of C- in one of the following (AASP101, ANTH210, ANTH260, ECON200, ECON201,GEOG202, GVPT170, PSYC100, SOCY100, or SOCY105). Restriction: Must be in the Information Science, Technology and Information Design, or Social Data Science programs; or must be in the Information Risk Management, Ethics, and Privacy Minor.*

*Evaluates major privacy and security questions raised by big data, Internet of things (IoT), wearables, ubiquitous sensing, social sharing platforms, and other AI-driven systems. Covers history of research ethics and considers how ethical frameworks can and should be applied to digital data.*

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| 0101 | Joseph Kelly<br>MW 11:00am - 12:15pm | Seats (Total: 75)<br>PLS 1130 |
| 0102 | Susan Campbell<br>TuTh 2:00pm - 3:15pm | Seats (Total: 75)<br>TWS 1310 |
| 0103 | Alla Levin<br>TuTh 3:30pm - 4:45pm | Seats (Total: 75)<br>JMZ 0220 |

**INST367** **Prototyping and Development Studio**

*Prerequisite: Minimum grade of C- in INST380. Restriction: Must be in the Technology and Information Design program. Credit only granted for: INST398A or INST367. Formerly: INST398A.*

*Covers interaction design--the process of defining products and the broad services built around them--and user experience research--how you determine what to design and how successful your design is. When interacting with systems, people build expectations and mental models of how things work, based upon their previous experience with similar products or processes, and the successful or unsuccessful nature of their interactions determines the success of your design. This course is about how to design for digital interactions that will resonate with your audiences (how the features and functions of a product get translated into something people find usable, useful, and desirable), and the research that goes on throughout that process (from contextual inquiry to evaluating the final product), with a particular emphasis on prototyping and iteration.*

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| 0101 | Anat Szendro Sevilla<br>W 2:00pm - 4:45pm | Seats (Total: 35)<br>HBK 0302H |

**INST377** **Dynamic Web Applications**

*Prerequisite: 1 course with a minimum grade of C- from (INST201, INST301, or BSOS233); and minimum grade of C- in INST327, STAT100, and MATH115 (or higher). Restriction: Restricted to Information Science and Social Data Science. Credit only granted for: INST377 or BMGT406.*

*An exploration of the basic methods and tools for developing dynamic, database-driven websites, including acquiring, installing, and running web servers, database servers, and connectability applications.*

Students who wish to register should contact the College of Information Studies.

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| 0101 | Anmol Dash<br>Class time/details on ELMs<br>F 9:00am - 9:50am | Seats (Total: 30)<br>ONLINE<br>HBK 0105 | Discussion |
| 0102 | Anmol Dash<br>Class time/details on ELMs<br>F 10:00am - 10:50am | Seats (Total: 30)<br>ONLINE<br>HBK 0105 | Discussion |
| 0103 | Anmol Dash<br>Class time/details on ELMs<br>F 11:00am - 11:50am | Seats (Total: 30)<br>ONLINE<br>HBK 0105 | Discussion |
| 0104 | Anmol Dash<br>Class time/details on ELMs<br>F 12:00pm - 12:50pm | Seats (Total: 30)<br>ONLINE<br>HBK 0105 | Discussion |
| 0201 | Anmol Dash<br>Class time/details on ELMs<br>W 10:00am - 10:50am | Seats (Total: 30)<br>ONLINE<br>CCC 1200 | Discussion |
| 0202 | Anmol Dash<br>Class time/details on ELMs<br>W 11:00am - 11:50am | Seats (Total: 30)<br>ONLINE<br>CCC 1200 | Discussion |
| 0203 | Anmol Dash<br>Class time/details on ELMs<br>W 12:00pm - 12:50pm | Seats (Total: 30)<br>ONLINE<br>CCC 1200 | Discussion |
| 0204 | Anmol Dash<br>Class time/details on ELMs<br>W 1:00pm - 1:50pm | Seats (Total: 30)<br>ONLINE<br>CCC 1200 | Discussion |

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|---|---|---|
| ESG1 | Timothy Suh | Seats (Total: 40) |
| | Tu 9:00am - 10:30am<br>Class time/details on ELMs | BLD4 4335<br>ONLINE |
| | *Restricted to students in the Information Science Program at USG. Meets in person on August 27, September 10, September 24, October 8, October 22, November 5, November 19, December 3* | |

**INST380** **Technology and Information Design: Do Good Now**

*Prerequisite: Minimum grade of C- in INST201, INST126, STAT100; minimum grade of C- from (PSYC100, SOCY105). Restriction: Must be in the Technology and Information Design program. Credit only granted for: ARHU380, BSOS388B, PLCY388D, or PLCY380.*

*Climate change. Poverty. Racism. Pressing social issues are big, complex, and difficult. They can feel overwhelming to understand and impossible to address. You might care deeply about an issue, and want to make a difference, but don't know where to start. Sometimes you might not even try. This course will equip and empower you to delve deep into understanding a social issue of your choosing. Through course materials and activities, you'll try out your changemaker muscles and mindsets. Our goal is that this course will empower you to be an informed, engaged citizen who contributes to your community with and beyond your profession. Along the way, we'll address questions like, "What is social change?" and "What happens when our actions have unintended consequences?" We'll talk about the importance of understanding, empathy, agency, and community, and reflect on how these concepts relate to us as individuals.*

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| 0101 | Elizabeth Bonsignore | Seats (Total: 40) |
| | TuTh 11:00am - 12:15pm | HBK 0302J |

**INST381** **Design Thinking for Visual Communication**

*Prerequisite: Minimum grade of C- in PSYC100 or SOCY105; and minimum grade of C- in INST126, INST201, and STAT100; and minimum grade of C- in MATH115 or higher. Restriction: Must be in the Technology and Information Design major. Credit only granted for: INST398J or INST381. Formerly: INST398J.*

*In an age where technology increasingly permeates our daily existence, there remain certain human qualities that machines cannot replicate: creativity, curiosity, and empathy. This course endeavors to delve into the dynamic relationship between the pillars of aesthetics and the core skills of Design Thinking (DT), all with the goal of enhancing the design process. Throughout the course, we will witness instances where DT bolsters Visual Communication (VC), and conversely, where VC lends its support to the DT process. Our exploration will revolve around three pivotal questions: How can we engage users and establish meaningful connections with them? How can we empathize with users' challenges and provide them with effective solutions? How can we embrace a holistic approach to design?*

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| 0101 | Anat Szendro Sevilla | Seats (Total: 25) |
| | W 11:00am - 1:45pm | HBK 0302H |

**INST388E** **"Maker Movement" Approach to Computing; Knitting = Algorithms + Coding**

*Informed by the "maker movement," this course allows students to merge their personal interests and hobbies with computing. This course is great for students new to computing who want to explore real world applications, or for more advanced students wanting an opportunity to engage in depth with a niche topic.*

Students will examine the relationship between knitting, algorithms, and coding through the investigation and practice of knitting stitches, the design of knitting patterns, and textile creation independent of current technology and time. In this course, we will explore the concepts of computational thinking, algorithms, and coding using the medium of knitting, creating fiber arts that reflect an understanding of the importance of algorithms and their use in problem-solving. We will capture that understanding and translate algorithms into knitting patterns, culminating in a project to create fiber art employing designs developed in the course.

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| 0101 | Pamela Duffy | Seats (Total: 25) |
| | **Meets August 26, 2024 - October 15, 2024** | |
| | Th 2:00pm - 3:50pm | CCC 1111 |

**INST388F** **"Maker Movement" Approach to Computing; Electronics for Makers**

*Informed by the "maker movement," this course allows students to merge their personal interests and hobbies with computing. This course is great for students new to computing who want to explore real world applications, or for more advanced students wanting an opportunity to engage in depth with a niche topic.*

Students will develop survival electronics skills for understanding and designing systems. This course will be a friendly introduction to physical computing, creating interactive systems that can sense (take inputs) and actuate (create outputs), under local electronic and/or cloud control. Such systems offer an interface between the analog and digital worlds. The theoretical inspiration is the material nature of bits: how do modern, virtual, digital systems - such as the Internet, VR, big data, and AI - require physical devices, places, and patterns of energy? Starting with educational kits and multimeters, and moving to breadboard circuits, Arduino microcontrollers,and Raspberry Pi singleboard computers, students will develop rapid prototyping skills, use electronics as a medium of expression, and develop some insight into the digital divide. No prior knowledge or skill is required.

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| 0101 | Dennis Frezzo | Seats (Total: 14) |
| | **Meets October 7, 2024 - December 9, 2024** | |
| | Th 4:00pm - 5:50pm | HBK 0302A |

**INST398C** **Special Topics in Information Studies; Managing Remote and Hybrid Teams**

*Selected topics in information studies.*

The shift towards hybrid work models is becoming increasingly prevalent in today's work environment. This model presents unique challenges for individuals and organizations, where some employees work in the office while others work remotely. As a result, organizational leadership needs to adapt to this agile environment and develop new skills to effectively manage remote, hybrid, and virtual teams. The course also addresses the impact of globalization on team communication, emphasizing the importance of management control, trust, and interpersonal connections in this context.

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| 0101 | Alla Levin<br>TuTh 2:00pm - 3:15pm<br>Class time/details on ELMs | Seats (Total: 35)<br>TWS 0223<br>ONLINE |

**INST398K** **Special Topics in Information Studies; Team Management for Information Science**

*Selected topics in information studies.*

Prerequisite: Minimum grade of C- in STAT100 or MATH115 or higher; and minimum grade of C- in INST126 or GEOG276; and minimum grade of C- in (PSYC100, SOCY105, or BSOS233) and a minimum of C- in INST335. This upper-level seminar for undergraduates delves into the management of teams, including cross-cultural and diverse teams, using information science examples. You will gain a better understanding of team characteristics (e.g. diversity) and team processes (e.g. conflicts) that affect outcomes (e.g. productivity, satisfaction).

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| 0101 | Matthew Patrick<br>W 2:00pm - 4:50pm | Seats (Total: 40)<br>ONLINE |

**INST402** **Designing Patient-Centered Technologies**

*Prerequisite: Minimum grade of C- from INST362 or INST367. Restriction: Must be in Technology and Information Design or Information Science programs.*

*Companies have created a vast array of apps and other technologies for understanding managing personal health and wellness, but many of them have been created with little understanding of audience needs or potential ethical issues. Course introduces students to the unique challenges of studying people's health and wellness needs as well as designing and evaluating technologies to meet those needs.*

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| 0101 | Eun Kyoung Choe<br>Tu 2:00pm - 4:45pm | Seats (Total: 40)<br>HBK 0115 |

**INST405** **Game Design**

*Prerequisite: Minimum grade of C- in INST126, STAT100 or INST201; and minimum grade of C- from PSYC100 or SOCY105. Restriction: Must be in the Information Science program or Technology and Information Design program. Credit only granted for: INST408J or INST405. Formerly: INST408J.*

*Games are a structured form of play that are typically undertaken for recreational--but sometimes also educational and even professional--purposes. But what constitutes a successful game? In this course, you will learn the fundamentals of game design: applying elements and principles of game design, such as goals, rules, and challenges to create games, such as board games, card games, and digital games. You will be introduced to the basic tools and methods of game design: paper and digital prototyping, design iteration, design critique, and user testing. As part of the course, you will be designing several games of different types. You will also learn how to use your skills to deconstruct and critique the components of existing games, as well as gain an understanding of the role of the game designer in real-world game development teams.*

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| 0101 | Alex Leitch | Seats (Total: 30) |
| | M 11:00am - 1:45pm | HJP 2242 |

**INST406** **Cross Disciplinary Communication Lab**

*Prerequisite: Minimum grade of C- in INST380; and a minimum grade of C- in Professional Writing General Education requirement. Restriction: Must be in the Technology and Information Design program.*

*Explores the world of communicating the ideas behind the things we make. In design, the product tends to be the prize: a manifestation of experience, sensibilities, and observations. But products do not always articulate a complete picture of what they are and how they came to be. Communication--speaking, writing, depicting, presenting to various audiences--is an under-leveraged component of design, connecting the product with emotion, process, context, and most importantly, the audience.*

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| 0101 | Manit Rana | Seats (Total: 40) |
| | Tu 3:00pm - 5:45pm | HBK 0302H |

**INST407** **Leading and Sustaining a Culture of Innovation**

*Restriction: Must be in Technology Innovation Leadership minor; or permission of INFO-College of Information Studies. Credit only granted for: INST408L or INST407. Formerly: INST408L.*

*Successful leaders know that the key to value creation and sustained growth lies in innovation -- continuously seeking opportunities to create value whether by launching new products and services, entering new markets, or rethinking key processes. This course will focus on the most efficient leadership strategies, change management, team motivation, technology team management for information management within organizations. We will examine some of the best ways to foster innovative behaviors within a team and organization. Students will engage with a course-long culture change challenge.*

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| ESG1 | Padric Mylod | Seats (Total: 60) |
| | Class time/details on ELMs | ONLINE |
| | *Restricted to students in the Information Science Program and the Information Risk Management, Ethics, and Privacy minor at USG.* | |

**INST408I** **Special Topics in Information Science; Introduction to Cyber Intelligence**

*Selected topics in information studies.*

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| 0101 | Zach Drake | Seats (Total: 40) | |
| | W 4:00pm - 5:45pm | ONLINE | |
| | Class time/details on ELMs | ONLINE | Discussion |

**INST408R** **Special Topics in Information Science; Human-Centered Computing for Global Challenges**

*Selected topics in information studies.*

This course involves hands-on projects where students use recently developed computational techniques and systems to tackle social problems in the U.S. and worldwide. Each project should focus on at least one of the 17 global challenges listed in the UN Sustainable Development Goals. We especially welcome students interested in technology and design, suchas those from iSchool's InfoDesign program andComputer Science, to join. Students should complete INST362 or a similar course before taking this one.

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| 0101 | Ge Gao | Seats (Total: 30) |
| | MW 4:00pm - 5:15pm | HJP 2217 |

**INST408V** **Special Topics in Information Science; Visual Design Studio**

*Selected topics in information studies.*

This is a studio, project-based course primarily aimed at developing foundational, visual language and skills related User Experience Design. The course will offer students room to explore U/X from varied perspectives and design methodologies while introducing them to modern platforms and processes. Students will learn the entire U/X workflow as well as understand where U/X fits in the industry pipeline.

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| 0101 | Yash Deshmukh | Seats (Total: 30) |
| | W 2:00pm - 4:45pm | HBK 0103 |

**INST408Z** **Special Topics in Information Science; Creative Coding**

*Selected topics in information studies.*

This course studies computational and data-driven tools for writing poetry and fiction. The focus is on experimental writing with computers, including digital fiction and poetry. Students will also explore novel forms of collaboration with the computer, such as using an AI-generated passage of text as the seed for a more conventionally authored short story; writing a poem that contains lines and stanzas scored either ridiculously high or low by sentiment algorithms; using paper rather than screens as a medium for computational display.

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| 0101 | Kari Kraus | Seats (Total: 25) |
| | TuTh 5:00pm - 6:15pm | ESJ 1309 |

**INST410** **Managing with Data and Simulations**

*Prerequisite: Minimum grade of C- in INST126 and STAT100; minimum grade of C- in PSYC100 or SOCY105; minimum grade of C- in INST201 or INST301; and minimum grade of C- in MATH115 or higher. Restriction: Must be in the Information Science or Technology and Information Design programs. Credit only granted for: INST408M or INST410. Formerly: INST408M.*

*General principles of modeling, data analysis, and decision-making methods. Approaches to evaluating and assessing effective concepts, methods, and procedures of modeling and data analysis for decision making in management, advocacy, and communication situations. Ethical considerations in management, advocacy, and communication situations in professional life.*

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| 0101 | Vedat Diker, Pamela Duffy<br>W 11:00am - 1:45pm | Seats (Total: 60)<br>ESJ 2212 | |
| 0102 | Vedat Diker, Pamela Duffy<br>TuTh 12:30pm - 1:45pm | Seats (Total: 40)<br>HBK 0302H | |

**INST414** **Data Science Techniques**

*Prerequisite: Minimum grade of C- in MATH115 (or higher) and STAT100; and a minimum grade of C- from INST126 or GEOG276; and a minimum grade of C- from one of the following (INST201, INST301, or BSOS233); and a minimum grade of C- from one of the following (AASP101, ANTH210, ANTH260, ECON200, ECON201, GEOG202, GVPT170, PSYC100, or SOCY100); and a minimum grade of C- from BSOS233 or INST314. Recommended: Minimum C- in MATH140 and (INST326, BSOS326, or GEOG376). Restriction: Must be in Information Science or Social Data Science program.*

*An exploration of how to extract insights from large-scale datasets. The course will cover the complete analytical funnel from data extraction and cleaning to data analysis and insights interpretation and visualization. The data analysis component will focus on techniques in both supervised and unsupervised learning to extract information from datasets. Topics will include clustering, classification, and regression techniques. Through homework assignments, a project, exams and in-class activities, students will practice working with these techniques and tools to extract relevant information from structured and unstructured data.*

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| 0101 | Zubin Jelveh<br>Th 11:00am - 12:15pm<br>F 9:00am - 10:15am | Seats (Total: 40)<br>ATL 1113<br>HBK 0302J | <br><br>Discussion |
| 0102 | Zubin Jelveh<br>Th 11:00am - 12:15pm<br>F 10:30am - 11:45am | Seats (Total: 40)<br>ATL 1113<br>HBK 0302J | <br><br>Discussion |
| 0201 | Cody Buntain<br>M 11:00am - 12:15pm<br>F 12:30pm - 1:45pm | Seats (Total: 40)<br>CCC 1205<br>CCC 1100 | <br><br>Discussion |

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| 0202 | Cody Buntain | Seats (Total: 40) | |
| | M 11:00am - 12:15pm<br>F 2:00pm - 3:15pm | CCC 1205<br>CCC 1100 | Discussion |

**INST441** **Information Ethics and Policy**

*Prerequisite: Minimum grade of C- from INST341 or INST380. Restriction: Must be in the Information Science program or Technology and Information Design program.*

*Explores via case studies the legal, ethical, and technological challenges in developing and implementing policies for managing digital assets and information. Emphasizes access questions pertinent to managing sensitive information and the roles and responsibilities of information professionals.*

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| 0101 | Pranav Tejasvi Adiraju | Seats (Total: 60) |
| | TuTh 12:30pm - 1:45pm | ESJ 2212 |

**INST442** **Digital Curation Across Disciplines**

*Prerequisite: Must have completed with a C- or higher, or be concurrently enrolled in INST341 or INST380. Restriction: Must be in the Information Science program or Technology and Information Design program.*

*Examines how to apply digital curation principles, tools, and strategies in managing diverse data collections and digital information in different disciplinary settings. Explores differences among data curation principles and practices across diverse settings, ranging from scientific organizations (such as business and academic research laboratories and computational science settings), to humanities-based institutions (such as cultural heritage organizations) to social science-based institutions (such as data-intensive professional environments).*

| | | |
|---|---|---|
| 0101 | Katrina Fenlon | Seats (Total: 50) |
| | TuTh 11:00am - 12:15pm | ESJ 2309 |

**INST447** **Data Sources and Manipulation**

*Prerequisite: Minimum grade of C- in STAT100 and INST327; and a minimum grade of C- from one of the following (INST201, INST301, BSOS233); and a minimum grade of C- from one of the following (AASP101, ANTH210, ANTH260, ECON200, ECON201, GEOG202, GVPT170, PSYC100, or SOCY100); and a minimum grade of C- from BSOS233 or INST314; and a minimum grade of C- from one of the following (BSOS331, GEOG273, or INST326). Restriction: Must be in Information Science or Social Data Science program.*

*Examines approaches to locating, acquiring, manipulating, and disseminating data. Imperfection, biases, and other problems in data are examined, and methods for identifying and correcting such problems are introduced. The course covers other topics such as automated collection of large data sets, and extracting, transforming, and reformatting a variety of data and file types.*

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|---|---|---|---|
| 0101 | Md Rony<br>TuTh 12:30pm - 1:45pm | Seats (Total: 75)<br>PLS 1130 | |
| 0201 | Nekabari Sigalo<br>Class time/details on ELMs<br>Tu 12:30pm - 1:45pm | Seats (Total: 40)<br>ONLINE<br>HBK 0109 | <br><br>Discussion |
| 0202 | Nekabari Sigalo<br>Class time/details on ELMs<br>Tu 2:00pm - 3:15pm | Seats (Total: 40)<br>ONLINE<br>HBK 0109 | <br><br>Discussion |
| 0301 | Matthew Patrick<br>Tu 6:00pm - 7:15pm<br>Th 3:30pm - 4:45pm | Seats (Total: 30)<br>ONLINE<br>PLS 1111 | <br><br>Discussion |
| 0302 | Matthew Patrick<br>Tu 6:00pm - 7:15pm<br>Th 5:00pm - 6:15pm | Seats (Total: 30)<br>ONLINE<br>PLS 1111 | <br><br>Discussion |

**INST451** **Consumer Health Informatics**

*Prerequisite: Minimum grade of C- in INST126, INST201 or STAT100; and minimum grade of C- from PSYC100 or SOCY105. Restriction: Must be in the Information Science program or Technology and Information Design program. Credit only granted for: INST408A or INST451. Formerly: INST408A.*

*Explores people's health-related information needs and whether, how, and why people seek out and use (or do not seek out and use) health information and the types of health information they find useful. We will also cover the important and interrelated topics of information avoidance, health behaviors, health literacy, digital health literacy, doctor-patient communication, and patient-to-patient communication through support groups and online communities. Throughout the course, we will also focus on the important concept of health justice - a world in which everyone has an adequate and equitable capability to be healthy.*

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|---|---|---|---|
| 0101 | Beth St Jean<br>M 2:00pm - 4:45pm | Seats (Total: 40)<br>HBK 0103 | |

**INST453** **Project Management for Information Science**

*Credit only granted for: BMGT485, ENCE320, ENCE325, INST408O or INST453. Formerly: INST408O.*

*Provides a comprehensive overview of project management, focusing on the needs of information resources (IR). The course covers the concepts and techniques for planning and execution of projects including developing work breakdown structure, estimating costs, managing risks, scheduling, staff and resource allocation, team building, communication, tracking, control, and other aspects of successful project completion.*

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|---|---|---|
| ESG1 | Arjav Shah | Seats (Total: 60) |
| | Class time/details on ELMs | ONLINE |
| | *Restricted to students in the BSIS @ USG Program and Technology Innovation Leadership Minor.* | |

**INST455** **Information Assurance and Compliance**

*Credit only granted for: INST408U or INST455. Formerly: INST408U.*

*Examines the protection of organizational data, personalized information, intellectual property and the associated assurance of the data's transfer, storage and communication. Students will understand how to manage these concerns and respond to both emergent and existing threats within the information domain. We will look at the key principles of Information Assurance, compliance and best practices in the real world.*

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|---|---|---|
| ESG1 | Michael Prakhye | Seats (Total: 60) |
| | Class time/details on ELMs | ONLINE |
| | *Restricted to students in the Information Science Program and the Information Risk Management, Ethics, and Privacy minor at USG.* | |

**INST461** **Emerging Technologies and Risk Management**

*Credit only granted for: INST408Z or INST461. Formerly: INST408Z.*

*Focuses on how people and companies can achieve various tangible and intangible benefits and assess risk in using and incorporating emerging technologies (i.e. mobile devices, social media, robotic process automation, 3-D printing, cloud computing, blockchain technologies, artificial intelligence, etc.) into the activities and operations of a company.*

| | | |
|---|---|---|
| ESG1 | Arjav Shah | Seats (Total: 60) |
| | Class time/details on ELMs | ONLINE |
| | *Restricted to students in the Information Science Program and the Information Risk Management, Ethics, and Privacy minor at USG.* | |

**INST462** **Introduction to Data Visualization**

*Prerequisite: Minimum grade of C- in STAT100; minimum grade of a C- from one of the following (INST201, INST301, or BSOS233); minimum grade of C- in INST126 or GEOG276; a minimum grade of C- from one of the following (AASP101, ANTH210, ANTH260, ECON200, ECON201, GEOG202, GVPT170, PSYC100, SOCY100, or SOCY105); and a minimum grade of C- from BSOS233 or INST314. Restriction: Must be in Information Science or Social Data Science program.*

*Exploration of the theories, methods, and techniques of visualization of information, including the effects of human perception, the aesthetics of information design, the mechanics of visual display, and the semiotics of iconography.*

Students who wish to register should contact the College of Information Studies.

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|---|---|---|---|
| 0101 | Jesse Klein<br>TuTh 9:30am - 10:45am | Seats (Total: 90)<br>ESJ 1202 | |
| 0201 | Scott Jackson<br>Tu 11:00am - 12:15pm<br>F 9:30am - 10:45am | Seats (Total: 40)<br>CCC 1100<br>TWS 1310 | <br><br>Discussion |
| 0202 | Scott Jackson<br>Tu 11:00am - 12:15pm<br>F 11:00am - 12:15pm | Seats (Total: 40)<br>CCC 1100<br>TWS 1310 | <br><br>Discussion |
| 0301 | Jesse Klein<br>TuTh 2:00pm - 2:50pm<br>Th 4:00pm - 4:50pm | Seats (Total: 40)<br>JMZ 0220<br>ONLINE | <br><br>Discussion |
| 0302 | Jesse Klein<br>TuTh 2:00pm - 2:50pm<br>Th 5:00pm - 5:50pm | Seats (Total: 40)<br>JMZ 0220<br>ONLINE | <br><br>Discussion |

**INST464** **Decision Making for Cybersecurity**

*Prerequisite: Must have earned a minimum grade of C- in INST201, INST126, MATH115, PSYC100, and INST364. Restriction: Must be in Information Science program. Credit only granted for: INST408W or INST464. Formerly: INST408W.*

*Discusses human and organizational decision making from a variety of perspectives. Applies different risk assessment and decision making frameworks that are relevant to personal and organization cybersecurity, with a focus on the quantitative Factor Analysis of Information Risk (FAIR) model. Considers monetary, social and societal costs of cybersecurity decisions. Considers a range of questions relating to cybersecurity, from whether to install a game on a smartphone to how to allocate scarce information security resources in an organization.*

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|---|---|---|---|
| 0101 | Joseph Kelly<br>MW 12:30pm - 1:45pm | Seats (Total: 50)<br>PLS 1130 | |

**INST466** **Technology, Culture, and Society**

*Prerequisite: Minimum grade of C- in INST201 or INST301; and minimum grade of C- in PSYC100 or SOCY105. Restriction: Must be in the Information Science program or Technology and Information Design program.*

*Individual, cultural, and societal outcomes associated with development of information & communication technologies (ICTs), including pro- and anti-social factors. Unpacking how gender, race, ethnicity, sexual orientation, disabilities, and political affiliations affect consumption and production of online experiences. Unpacking how structures of dominance, power and privilege manifest at individual, institutional and cultural levels.*

| | | |
|---|---|---|
| 0101 | Jesse Klein<br>TuTh 11:00am - 12:15pm | Seats (Total: 44)<br>HBK 0109 |
| 0102 | Irene Pasquetto<br>MW 2:00pm - 3:15pm | Seats (Total: 60)<br>ESJ 2212 |
| 0103 | Alia Reza<br>TuTh 9:30am - 10:45am | Seats (Total: 42)<br>HBK 0115 |
| 0104 | Irene Pasquetto<br>MW 12:30pm - 1:45pm | Seats (Total: 45)<br>BPS 1236 |

**INST490** **Integrated Capstone for Information Science**

(Perm req)

*Prerequisite: Minimum grade of C- in INST311, INST314, INST326, INST327, INST335, INST346, INST352, and INST362. Restriction: Must be in Information Science program; and must have earned a minimum of 90 credits; and permission of INFO-College of Information Studies.*

*The capstone provides a platform for Information Science students where they can apply a subset of the concepts, methods, and tools they learn as part of the Information Science program to addressing an information problem or fulfilling an information need.*

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|---|---|---|
| 0101 | Andrew Fellows<br>TuTh 3:30pm - 4:45pm | Seats (Total: 50)<br>IRB 2207 |
| 0102 | Mary Ann Francis<br>F 2:00pm - 4:45pm | Seats (Total: 40)<br>HBK 0302J |
| 0103 | TJ Rainsford<br>TuTh 9:30am - 10:45am | Seats (Total: 40)<br>HBK 0302J |
| 0104 | TJ Rainsford<br>TuTh 12:30pm - 1:45pm | Seats (Total: 40)<br>HBK 0302J |
| 0105 | Jesse Klein<br>W 5:00pm - 7:45pm | Seats (Total: 50)<br>ONLINE |
| 0106 | Katy Lawley<br>M 11:00am - 1:45pm | Seats (Total: 40)<br>HBK 0302J |

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|---|---|---|
| 0107 | Stacy Surla<br>TuTh 2:00pm - 3:15pm | Seats (Total: 50)<br>HJP 2242 |

**INST600** **Foundations for Librarians and Information Professionals**

*Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC791 or INST600. Formerly: LBSC791.*

*An introduction to the field of library and information science (LIS), its history, and future direction that provides students with an understanding and appreciation of the nature and functions of the profession(s) they have entered. The focus is on core concepts underlying the LIS discipline, with particular emphasis on professional ethics/values, diversity, equity, inclusion and accessibility (DEIA), and the ways in which technology has shaped and continues to shape the field.*

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|---|---|---|
| IM01 | Ryan O'Grady<br>M 6:00pm - 8:45pm | Seats (Total: 55)<br>ESJ 2309 |
| IM02 | Amelia Gibson<br>Class time/details on ELMs | Seats (Total: 40)<br>ONLINE |

**INST604** **Introduction to Archives and Digital Curation**

*Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC604 or LBSC605.*

*Overview of the principles, practices, and applications in the archival and digital curation fields.*

| | | |
|---|---|---|
| IM01 | Eric Hung<br>Class time/details on ELMs | Seats (Total: 40)<br>ONLINE |
| IM02 | Melissa Wertheimer<br>Tu 11:00am - 1:45pm | Seats (Total: 25)<br>HBK 0105 |

**INST607** **Government Information**

*Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM718E, INST607, or LBSC708E. Formerly: INFM718E and LBSC708E.*

*An introduction to the nature and scope of government information (federal, state, and local). Tracing the ongoing efforts of government agencies to offer information, services, and resources online, this course also examines the nature and current impact of new technologies on participatory democracy. More specifically, the course explores information and communication technologies designed to make government more open and transparent; the design, implementation, and evaluation of new government and governance mechanisms, including through the use of social media and AI; the role of legal authorities and information institutions such as libraries in supporting access to government information; and the development and implementation of selected public facing online tools (e.g., data visualization, crowd-sourcing, etc.).*

| | | |
|---|---|---|
| IM01 | Jason Baron | Seats (Total: 30) |
| | Class time/details on ELMs | ONLINE |

**INST608A** **Special Topics in Information Studies; Electronics for Makers**

*Covers special topics in information studies.*

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|---|---|---|
| 0101 | Dennis Frezzo | Seats (Total: 1) |
| | **Meets October 7, 2024 - December 9, 2024** | |
| | Th 4:00pm - 5:50pm | HBK 0302A |

**INST608Q** **Special Topics in Information Studies; Consumer Health Informatics**

*Covers special topics in information studies.*

In this course, we investigate Consumer Health Informatics and Information Behavior, focusing most heavily on their intersection - Consumer Health Information Behavior. We explore people's health-related information needs and whether, how, and why people seek out and use (or do not seek out and use) health information. We also look at information avoidance, health behaviors, health literacy, digital health literacy, doctor-patient communication, and patient- to-patient communication. Throughout the course, we emphasize the importance of health justice - a world in which everyone has an adequate and equitable capability to be healthy. We will identify populations that experience social injustice and explore information-related factors that contribute to the health inequities they face and the resulting consequences. Our central aim in the course is to conceive of ways to facilitate people's access to health information and their health-related information seeking, and to promote health justice for all.

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|---|---|---|
| IM01 | Beth St Jean | Seats (Total: 9) |
| | M 2:00pm - 4:45pm | HBK 0103 |

**INST610** **Information Ethics**

*Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INFM718Q, INST610, or LBSC708I. Formerly: INFM718Q and LBSC708I.*

*Investigation of the diverse range of ethical challenges facing society in the information age. Ethical theories, including non-Western and feminist theories. Application of theories to information ethics issues.*

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|---|---|---|
| IM01 | Galina Reitz | Seats (Total: 30) |
| | Class time/details on ELMs | ONLINE |

**INST613** **Information and Human Rights**

*Restriction: Permission of INFO-College of Information Studies.*

*An examination of information as a human right, including topics: social, cultural, economic, legal, and political forces shaping information rights; the impact of information rights on information professions, standards, and cultural institutions; and information rights and disadvantaged populations.*

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|---|---|---|
| IM01 | Paul Jaeger | Seats (Total: 30) |
| | Class time/details on ELMs | ONLINE |

**INST615** **Information Professionals and the Law**

*Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC735 OR INST615. Formerly: LBSC735.*

*An exploration of the interrelated issues of the provision of and information literacy about legal information by information organizations and the impacts of legal issues, such as privacy and filtering, on the practice of information organizations that serve the public.*

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|---|---|---|
| IM01 | Ursula Gorham-Oscilowski | Seats (Total: 30) |
| | Class time/details on ELMs | ONLINE |

**INST620** **Diverse Populations, Inclusion, and Information**

*Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC620 OR INST620. Formerly: LBSC620.*

*Importance of equality of information access. Social, political, and technological barriers to information. Information needs of diverse and underrepresented populations. Principles of inclusive information services.*

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|---|---|---|
| IM01 | Renee Hill | Seats (Total: 30) |
| | Class time/details on ELMs | ONLINE |

**INST627** **Data Analytics for Information Professionals**

*Restriction: Permission of INFO-College of Information Studies.*

*Skills and knowledge needed to craft datasets, perform quantitative and qualitative analyses, and develop information resources that bridge the gap between raw data and decision makers' needs.*

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|---|---|---|
| IM01 | Zach Drake | Seats (Total: 40) |
| | Tu 6:00pm - 8:45pm | HBK 0115 |
| | *This in-person section is reserved for students in the MIM program.* | |
| IM02 | Zach Drake | Seats (Total: 10) |
| | Class time/details on ELMs | ONLINE |
| | *This online section is reserved for GEM/Data Journalism students.* | |

**INST630** **Introduction to Programming for the Information Professional**

*Restriction: Permission of INFO-College of Information Studies.*

*An introduction to the development and programming of user interfaces intended for students interested in human-computer interaction. Topics include fundamentals of programming, history and current trends in user interface implementation that are relevant to information professionals.*

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|---|---|---|
| IM01 | Alex Leitch<br>Th 2:00pm - 4:45pm | Seats (Total: 30)<br>HBK 0302H |

**INST631** **Fundamentals of Human-Computer Interaction**

*Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST631 or LBSC795. Formerly: LBSC795.*

*Principles of human-human and machine-machine communication as a basis for models of human-computer communication. Issues related in input/ output devices, conceptual models, levels of control, metaphor and personification, adaptability, and intensionality/extensionality.*

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|---|---|---|
| IM01 | Caro Williams-Pierce<br>Tu 6:00pm - 8:45pm | Seats (Total: 30)<br>HBK 0302H |
| IM02 | Caro Williams-Pierce<br>Th 6:00pm - 8:45pm | Seats (Total: 30)<br>HBK 0115 |

**INST639L** **Practical Skills in HCI; Accessibility Evaluation Workshop**

*Current industry practice in the HCI and UX field involves being familiar with many practical skills and specialized software. In this repeatable course, HCIM students will be able to acquire some of these vital practical skills in order to be better prepared for joining industry upon graduation. Furthermore, this will also be an opportunity for students to develop their portfolio for future job hunts. Offered in both Fall and Spring semesters, the intention is for these "practical skills" to be taught by professional instructors with expert knowledge. The content of the course will vary from semester to semester, but here is a sample of topics: Graphic and visual design and communication; UX design and research in games; Voice and gestures; UX mockups and wireframing tools; Practical web design and technologies; UX project management software.*

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|---|---|---|
| IM01 | Rachael Bradley<br>M 6:00pm - 7:00pm<br>Class time/details on ELMs | Seats (Total: 15)<br>HBK 0108<br>ONLINE |

**INST643** **Curation in Cultural Institutions**

*Restriction: Permission of INFO-College of Information Studies.*

*An overview of the principles, practices, and current debates in the management, care and representation of digital artifacts in libraries, archives, and museums.*

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|---|---|---|
| IM01 | Angela Rodgers-Koukoui | Seats (Total: 25) |
| | Class time/details on ELMs | ONLINE |

**INST650** **Facilitating Youth Learning in Formal and Informal Environments**

*Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST650 or LBSC640. Formerly: LBSC640.*

*The historical, organizational, and contemporary contexts of formal and informal learning spaces; the principles of teaching, learning, and information literacy that underlie the formal and informal learning spaces; and the leadership role that information professionals can play within their schools, libraries and communities.*

| | | |
|---|---|---|
| IM01 | Sheri Massey | Seats (Total: 30) |
| | Class time/details on ELMs | ONLINE |

**INST651** **Promoting Rich Learning with Technology**

*Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST651 or LBSC642. Formerly: LBSC642.*

*Exploration of how technology can be used to promote rich learning experiences, with a particular focus on youth populations. Assessment of the how, when, and why of infusing technology into the teaching and learning process.*

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|---|---|---|
| IM01 | Waqas Shah | Seats (Total: 30) |
| | Class time/details on ELMs | ONLINE |

**INST653** **Introduction to Museum Scholarship**

*Cross-listed with: AMST655, ANTH655, HIST610. Credit only granted for: AMST655, ANTH655, HIST610, INST728T or INST653.*

*Provides students a basic understanding of museums as cultural and intellectual institutions. Topics include the historical development of museums, museums as resources for scholarly study, and the museum exhibition as medium for presentation of scholarship.*

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|---|---|---|
| 0201 | Diana Marsh | Seats (Total: 30) |
| | Th 2:00pm - 4:40pm | TWS 0205 |

**INST661** **Introduction to Game, Entertainment, and Media Analytics**

*Prerequisite: Permission of the instructor.*

*With the continuing global growth in the Game, Entertainment, and virtual/augmented reality and immersive experiences industries, entertainment providers increasingly depend on data analytics to maintain a competitive edge while continuing to improve the customer experience. This course provides an overview of the Game, Entertainment, and Media (GEM) industries, discuss the relationships between the entertainment providers and the entertainment consumers, and explore the analytical techniques used to maximize the overall value to both the providers and consumers. The course will focus on the uses of analytics methods such as personalization, recommendation, clustering and segmentation, behavioral analytics, etc., will discuss core data management and data architecture concerns, and examine how big data infrastructure can support scalability as data volumes grow and as streaming speeds accelerate. In addition we review socio-technical aspects of entertainment, especially in the areas of cyberpsychology, social networks, and information policy concerns such as privacy protection, fraud, equity, and national security concerns.*

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|---|---|---|
| IM01 | Jesse Klein | Seats (Total: 40) |
| | Class time/details on ELMs | ONLINE |

**INST680** **Health Informatics**

*Prerequisite: Must have completed or be concurrently enrolled in INFM600 or LBSC602; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST680 or INST728F. Formerly: INST728F.*

*An introduction to the ways in which medical data, information, and knowledge are created, stored and used. Students will gain an understanding of the current trends in the delivery of medical care and the ways in which these trends influence health information resources and systems.*

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|---|---|---|
| IM01 | Amelia Gibson | Seats (Total: 25) |
| | M 6:00pm - 8:45pm | HBK 0105 |

**INST704** **Inclusive Design in HCI**

*Prerequisite: INST631; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST728Z OR INST704. Formerly: INST728Z.*

*An introduction to inclusive technology design, that is, the design and evaluation of user interfaces for diverse users and use contexts. Building on basic concepts in human-computer interaction, students will learn about design exclusion and barriers to use, and methods by which these can be overcome. Assistive input and output technologies will also be covered. Populations include older adults, users with visual, cognitive or motor impairments, users who are deaf or hard of hearing, children, users in low resource contexts, and users in mobile contexts. Research trends and practical design considerations (e.g., web accessibility requirements) will be covered. Students will interact with the material through readings, discussion, and individual and group assignments.*

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|---|---|---|
| IM01 | Vaishnav Kameswaran | Seats (Total: 30) |
| | Tu 11:00am - 1:45pm | HBK 0115 |

**INST705** **Game Design Studio**

*Recommended: Programming experience will be useful, but not strictly necessary. Credit only granted for: INST408J, INST608J or INST705. Formerly: INST608J.*

*Learn the fundamentals of game design by applying elements and principles of game design, such as goals, rules, and challenges, to create board games, card games, and digital games. Students will be introduced to the basic tools and methods of game design: paper and digital prototyping, design iteration, design critique, and user testing. Students will design several games of different types to add to a growing portfolio of game design concepts. Students will also learn how to use their skills to deconstruct and critique the components of existing games, as well as gain an understanding of the role of the game designer in real-world game development teams.*

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|---|---|---|
| IM01 | Alex Leitch<br>M 11:00am - 1:45pm | Seats (Total: 7)<br>HJP 2242 |

**INST709** **Independent Study**

(Perm req)

*Intensive individual study, reading, or research in an area of specialized interest under faculty supervision. Registration limited to the advanced student with the approval of the advisor and of the faculty member involved.*

**Contact department for information to register for this course.**

**INST710** **User Experience Research Methods**

*Students will learn to conduct user research in industry and to provide foundational knowledge needed for academic research. It examines the theoretical and epistemological differences between research paradigms and provides an overview of qualitative, quantitative and mixed-method approaches. It overviews user-centered design (UCD) methods, and uses Contextual Inquiry/Contextual Design as the backbone for a research project, incorporating related formative UCD methods and techniques. It is a project-based course, where students conduct a semester-long project to prepare them for the HCIM Capstone as well as other types of formative user research.*

Restriction: For students in HCIM program only.

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|---|---|---|
| IM01 | Tamara Clegg<br>W 2:00pm - 4:45pm | Seats (Total: 40)<br>HBK 0302J |

**INST711** **Interaction Design Studio**

*Covers basic interaction design principles and design process from a studio-based design perspective. Focuses on how to design for interactions that will resonate with your audiences: how the features and functions of a project get translated into something people find usable, useful, and desirable. Explores the role of interaction designers. Students design and prototype interactive products, systems, and services.*

| | | |
|---|---|---|
| IM01 | Alex Leitch<br>Tu 2:00pm - 4:45pm | Seats (Total: 25)<br>HBK 0302J |

| | | |
|---|---|---|
| IM02 | Kirtana Kalavagunta<br>W 6:00pm - 8:45pm | Seats (Total: 25)<br>HBK 0302H |

**INST728A** **Special Topics in Information Studies; Digital Accessibility Law and Management**

*Selected topics in information studies.*

Organizations understand the basic concepts of digital accessibility for people with disabilities but are often confused about what their legal responsibilities are, and how to actually plan for, implement, and manage accessibility. This course will cover: the legal rules (statutes, regulations, and case law) related to digital accessibility, international technical standards for accessibility and methods for accessibility evaluation, and best practices in management from education, government, libraries, and business to ensure accessibility of digital technologies.

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|---|---|---|
| 0101 | Jonathan Lazar<br>W 2:00pm - 4:45pm | Seats (Total: 30)<br>ONLINE |

**INST728B** **Special Topics in Information Studies; Music Encoding for Preservation & Research**

*Selected topics in information studies.*

In this course, students will gain hands-on experience in creating, manipulating, and analyzing encoded music, specifically working with theMusic Encoding Initiative (MEI)schema, and explore how these digital representations can serve performers, scholars, librarians, and archivists. Through collaborative experiential learning, students will publish a dataset of encoded works based on archival materials, and directly contribute to the scholarly discourse surrounding best practices. No previous coding experience necessary.

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|---|---|---|
| IM01 | Jessica Grimmer<br>M 5:00pm - 7:45pm<br>Class time/details on ELMs | Seats (Total: 25)<br>HBK 0115<br>ONLINE |

**INST728C** **Special Topics in Information Studies; Advanced Visual Design for Interfaces**

*Selected topics in information studies.*

This studio course gives students a professional, career-ready visual design skill-set by continuing to explore and build off of advanced topics in strategy, concept, artistic direction and execution. Students will combine visual design analysis with business objectives to produce iterative, presentable projects and case studies that reflect the real world processes and results of commercial work

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|---|---|---|
| IM01 | Rayna Arora<br>M 11:00am - 1:45pm | Seats (Total: 30)<br>ESJ B0320 |

**INST728D** **Special Topics in Information Studies; Learning and Community Engagement in Museums**

*Selected topics in information studies.*

Museum learning and community engagement teams regularly create a wide range of specialized learning opportunities for audiences of all ages both inside and outside of the museum, including formal settings (i.e., schools, universities) and informal settings (i.e., community venues, social media). Through a lens of critical museum studies, this course will introduce the wide range of learning opportunities in museums and methods by which to design and deliver learning programs using equitable and inquiry-based methodologies, empowering students to create and promote equitable learning and engagement opportunities in their institutions.

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|---|---|---|
| IM01 | Lesley Langa | Seats (Total: 15) |
| | Tu 5:30pm - 7:00pm | ONLINE |
| | Class time/details on ELMs | ONLINE |

**INST728F** **Special Topics in Information Studies; Generative AI in UX: Transforming UX Practice**

*Selected topics in information studies.*

| | | |
|---|---|---|
| IM01 | Tom Brinck | Seats (Total: 30) |
| | M 2:00pm - 4:45pm | ONLINE |

**INST735** **Natural Language Processing**

*Prerequisite: Minimum grade of C- in CMSC422; and permission of CMNS-Computer Science department. Cross-listed with: CMSC723, LING723. Credit only granted for: CMSC723, LING723, or INST735. Additional information: CMSC students may only receive PhD Comp. credit for CMSC723 or CMSC823, not both.*

*Introduce fundamental concepts, techniques, and algorithms for the computational handling of natural language. Statistical and machine learning techniques, models, and algorithms that enable computers to deal with the ambiguity and implicit structure of human language. Approaches that focus on uncovering linguistic structure, such as syntactic or semantic parsing, as well as those that focus on manipulating text in useful ways, such as question answering or machine translation.*

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|---|---|---|
| 0101 | Naomi Feldman, Jordan Ying | Seats (Total: 49) |
| | MW 2:00pm - 3:15pm | IRB 1116 |

**INST737** **Introduction to Data Science**

*Prerequisite: INST627 and (LBSC690, LBSC671, INFM603, or JOUR652). Restriction: Permission of INFO-College of Information Studies.*

*An exploration of some of the best and most general approaches to get the most information out of data through clustering, classification, and regression techniques.*

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|---|---|---|
| IM01 | Naeemul Hassan | Seats (Total: 40) |
| | Class time/details on ELMs | ONLINE |

**INST752** **Location Intelligence**

*Prerequisite: INFM600, INFM603, INST630, and INST733; or permission of INFO-College of Information Studies.*

*Provides a comprehensive overview of the principles of geographic information systems and location analytics for a variety of business scenarios. Explores the processes for integrating location information, maps, and demographic information with business information and implementing analytical applications. Reviews business contexts such as government and citizen analysis, zoning and planning, retail site selection, supply chain management and logistics, fieldservice planning and tracking, real estate, insurance, public safety, municipal maintenance, and others. Provides hands-on opportunities to apply location intelligence methods.*

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|---|---|---|
| IM01 | Patricia Bunnell | Seats (Total: 40) |
| | Class time/details on ELMs | ONLINE |

**INST753** **Data Governance and Data Quality**

*Prerequisite: INFM600, INFM603, and INST733; or permission of INFO-College of Information Studies.*

*Surveys the methods and practices for understanding the relationship between organizational performance objectives and their effective oversight, use, and management of information. Examines methods for instituting information governance, data governance, and data quality in the context of information policies for assessing information risk, observing data policies, and enforcing accountability for protection of sensitive information. Explores models of data ownership and accountability, roles and responsibilities for data governance and data stewardship, and processes for soliciting and documenting information and data requirements. Covers techniques for data quality assessment, specification of data quality rules, and applications for validating compliance with data quality expectations, monitoring levels of data quality, and notifications and dashboards for monitoring data compliance.*

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|---|---|---|
| IM01 | David Patrick | Seats (Total: 40) |
| | Class time/details on ELMs | ONLINE |

**INST754** **Data Integration and Preparation for Analytics**

*Prerequisite: INFM600, INST630, and INST733; and (INFM603 or JOUR652) ; or permission of INFO-College of Information Studies.*

*Provides a comprehensive overview of the end-to-end processes for acquiring, ingesting, managing, cleansing, transforming and integrating data sources for the purposes of reporting andanalytics. Concepts include data acquisition, data streaming, data staging, standardization, data quality, concept and metadata harmonization, transformation, and data modeling. Students will learn how ingested data sets can be transformed, integrated, and prepared for analytical use.*

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| IM01 | Faisal Quader | Seats (Total: 30) |
| | Th 11:00am - 1:45pm | HBK 0115 |

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|---|---|---|
| IM02 | Faisal Quader<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE |

**INST760** **Data Visualization**

*Prerequisite: INST630; or INFM603; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: INST760 or INST728V. Formerly: INST728V.*

*Introduction to the science and technology of data visualization--the graphical representation of data to aid understanding--and includes both theoretical foundations as well as practical applications of integrated visualization techniques on real-world problems. Application of these techniques to state-of-the-art problem domains within research, society, and industry.*

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|---|---|---|
| IM01 | Md Hoque<br>W 2:00pm - 4:45pm | Seats (Total: 30)<br>TWS 0234 |
| IM02 | Md Hoque<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE |

**INST764** **Data Literacy for Arts and Entertainment Management**

*Restriction: Permission of INFO-College of Information Studies.*

*This survey course provides an overview of the integral use of data and information to manage, inform the operations, engage customers, patrons, and donors, and influence product/exhibit/program design in arts and entertainment businesses and organizations. The course will introduce core concepts of data literacy such as metadata and data management for collection curation and management, information seeking behaviors and enabling search, data management for business operations, descriptive analytics for reporting, using data for customer relationship management, and more advanced analytics. The course will explore how all these concepts fit together in the context of Arts and Entertainment Management and provide laboratory projects that provide hands-on experience with the different information and data management practices discussed.*

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|---|---|---|
| IM01 | David Loshin<br>Class time/details on ELMs | Seats (Total: 30)<br>ONLINE |

**INST771** **Foundations of Cybersecurity**

*Explores the foundational concepts of cybersecurity including the Threat Landscape, the evolution and structures of the global telecommunications network, key communication protocols and foundations of networks, the history, culture and emergence of the hacking process, and the core motivations and tactics of threat actors.*

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|---|---|---|
| IM01 | Ido Sivan-Sevilla<br>Class time/details on ELMs<br>Tu 2:15pm - 4:15pm | Seats (Total: 24)<br>ONLINE<br>EDU 3236 |

**INST775** **HCIM CAPSTONE PREP**

*Prerequisite: INST631, INST632, and INST717; and must have completed Research Methods; and permission of INFO-College of Information Studies. Or permission of instructor. Restriction: Must be taken in the fall semester of the year in which the student plans to graduate; and permission of INFO-College of Information Studies.*

*Students will define a project, which requires a high level of background research, rigor in execution and evaluation, and documentation. Capstone projects may follow the design, prototyping and evaluation process from end-to-end or may focus on a subset of elements in that process, such as formative study and design.*

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|---|---|---|
| IM02 | Stacy Surla<br>M 3:00pm - 5:45pm<br>Th 6:00pm - 8:45pm | Seats (Total: 25)<br>HBK 0302H<br>HBK 0302J |
| IM03 | Heera Lee<br>Tu 6:00pm - 8:45pm<br>Th 6:00pm - 8:45pm | Seats (Total: 25)<br>HBK 0302J<br>ONLINE |

**INST779** **Readings Seminar; Readings Seminar**

*Readings in emerging topics. Through readings and discussion the class will critically assess future directions and highlight intersection points with other disciplines (e.g., medicine) and sub-disciplines of information studies and computer science (e.g., information retrieval, computer vision, machine learning). One or more themes will be covered over the semester (e.g., inclusive design, health informatics, environmental sustainability, social networking) and will be chosen based on instructor and student interest.*

Cross-listed with INST828. Credit only granted for INST828 or INSt779.

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|---|---|---|
| 0101 | Eun Kyoung Choe<br>W 11:00am - 11:50am | Seats (Total: 10)<br>ONLINE |

**INST782** **Arrangement, Description, and Access for Archives**

*Prerequisite: INST604; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC684, LBSC781, LBSC782, or INST782. Formerly: LBSC684, LBSC781, and LBSC782.*

*Introduction to the key concepts and practices involved with arrangement and description of archives, and the techniques appropriate to enable users to access archival information in traditional and nontraditional archival contexts.*

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| IM01 | Jordon Steele<br>Class time/details on ELMs | Seats (Total: 30)<br>ONLINE |

**INST784** **Digital Preservation**

*Prerequisite: INST604; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC784 or INST784. Formerly: LBSC784.*

*Issues and practices regarding digitization of analog materials and preservation of digital materials, both digitized and born digital.*

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|---|---|---|
| IM01 | Chad Doran | Seats (Total: 30) |
| | Class time/details on ELMs | ONLINE |

**INST787** **Museum Scholarship Practicum**

(Perm req)

*Prerequisite: AMST856, ANTH856, or HIST810. Restriction: Permission of Museum Scholarship Program required. Cross-listed with: AMST857, ANTH857, HIST811. Credit only granted for: AMST857, ANTH857, HIST811, INST728I or INST787.*

*Students devise and carry out a research program using the collections at the Smithsonian Institution or some other cooperating museum, working under joint supervision of a museum professional and a university faculty member.*

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|---|---|---|
| IM01 | Paul Jaeger | Seats (Total: 12) |
| | Contact instructor or department for details. | |

**INST798** **Seminar in Research Methods and Data Analysis**

*Topics and issues in information studies research. Design and conduct of research project.*

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|---|---|---|
| IM01 | Jessica Vitak | Seats (Total: 20) |
| | Tu 2:00pm - 4:45pm | HBK 0103 |
| | *Interviews and Grounded Theory.* | |

**INST799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**INST800** **The Engaged Intellectual: An Introduction to Research and Academic Work**

(Perm req)

*Restriction: Permission of INFO-College of Information Studies; and restricted to students in Ph.D. in Information Studies (INFS) program.*

*An introduction to the academic life with a particular focus on what it means to undertake research, teaching, and service.*

Restricted to Doctoral Students.

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|---|---|---|
| 0101 | Vanessa Frias Martinez<br>W 2:00pm - 4:45pm | Seats (Total: 15)<br>HBK 2119 |

**INST801** **Theoretical and Epistemological Foundations in Information Studies**

*Credit only granted for: INST888 or INST801. Formerly: INST888.*

*Pursuing a doctorate in information studies involves the scholarly examination of the interaction between people, information, technology, and society. There are, however, as many ways to examine the interaction of people, information, technology, and society as there are researchers and ways of understanding what counts as evidence and knowledge in different components of the field. Students will be introduced to the diverse scholarly traditions that comprise information studies. Students will explore why there are so many ways of knowing and methods of discovery within the field, in order to help them identify the social theory and methods that will support their path through information scholarship.*

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|---|---|---|
| 0101 | Joel Chan<br>M 2:00pm - 4:45pm | Seats (Total: 15)<br>HBK 0108 |

**INST808** **Seminar in Research Methods and Data Analysis**

*Topics and issues in information studies research. Design and conduct of research project.*

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|---|---|---|
| IM01 | Jessica Vitak<br>Tu 2:00pm - 4:45pm<br>*Interviews and Grounded Theory.* | Seats (Total: 20)<br>HBK 0103 |

**INST809** **Individualized Teaching Experience**

(Perm req)

*Introduction to the techniques and challenges associated with design, delivery, and evaluation of couses offered at the University level. The doctoral student will work one-on-one with a faculty member in the development and co-teaching of a graduate level course.*

**Contact department for information to register for this course.**

**INST818** **Individual Research Experience**

(Perm req)

*Pre-candidacy individual research experience directed by a faculty member.*

**Contact department for information to register for this course.**

**INST828** **Readings Seminar**

*Readings in emerging topics. Through readings and discussion the class will critically assess future directions and highlight intersection points with other disciplines (e.g., medicine) and sub-disciplines of information studies and computer science (e.g., information retrieval, computer vision, machine learning). One or more themes will be covered over the semester (e.g., inclusive design, health informatics, environmental sustainability, social networking) and will be chosen based on instructor and student interest.*

Cross-listed with INST779. Credit only granted for INST828 or INSt779.

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|---|---|---|
| 0101 | Eun Kyoung Choe | Seats (Total: 10) |
| | W 11:00am - 11:50am | ONLINE |
| | *Designing Equitable and Inclusive AI-Powered Systems* | |

**INST878D** **Special Topics in Information Studies; Governing Algorithms & Algorithmic Governance**

*Seminar topics offered as faculty and student interests warrant. Topic varies.*

Cross-listed with CMSC839C. Credit only granted for INST878D or CMSC839C. This cross-cutting interdisciplinary course, taught jointly between the College of Information Studies and the Department of Computer Science, investigates the role that algorithms and automated decision-making systems play in markets, societies, and policymaking. The course connects policy and computational conceptualizations of transparency, security, fairness, privacy, manipulation, and accountability through a series of casestudies and burning debates. Students will collaborate cross-disciplinary and be encouraged to work through difficult trade-offs to reach consensus. By discussing recent applications of algorithms for social and consumer sorting, and the moderation and generation of content, students will engage with the pressing challenges and opportunities in the governance of and by algorithms.

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| 0101 | Gabriel Kaptchuk, Ido Sivan-Sevilla | Seats (Total: 15) |
| | Tu 11:00am - 1:45pm | JMZ 0103 |

**INST878G** **Special Topics in Information Studies; Participatory Design and Participatory Action Research**

*Seminar topics offered as faculty and student interests warrant. Topic varies.*

This course provides an introduction to the design and implementation of participatory design approaches and participatory action research (PAR) as methods to inform adaptive leadership and create organizational change. The course will introduce PAR as an iterative cycle of research, action, and reflection, involving researchers and participants working together to understand a problematic workplace situation and change it for the better. The course will focus especially on PAR's capacity to create social change that promotes democracy and challenges inequality.

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|---|---|---|
| 0101 | Elizabeth Bonsignore | Seats (Total: 20) |
| | Class time/details on ELMs | ONLINE |

**INST878J** **Special Topics in Information Studies; Accessible Computer Mediated Communication**

*Seminar topics offered as faculty and student interests warrant. Topic varies.*

Introduces accessible communication design with a focus on supporting individuals who face challenges in speaking and use alternative methods to communicate. You'll integrate concepts from User Experience, Human-Computer Interaction, Digital Accessibility, and Communication Theory, and work on a case study to evaluate and improve a commercial communication technology. Students with backgrounds in prototyping, front-end programming, user-centered design, special education, or speech and hearing sciences are welcome.

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| 0101 | Stephanie Valencia Valencia | Seats (Total: 20) |
| | TuTh 11:00am - 12:15pm | BPS 1232 |

**INST878P** **Special Topics in Information Studies; Leading an Inclusive Information Organization**

*Seminar topics offered as faculty and student interests warrant. Topic varies.*

This course aims to explore the range of human diversity and understanding how this plays into creating an inclusive information organization. To support the leadership development of each student, this course focuses on the complex dynamics of varying forms of diversity in organizations, as seen from the vantage points of social science, industrial/organizational psychology, and organizational studies. The course will adopt multiple levels of analysis to critically explore the current state of theory, research, and application regarding the role and treatment of differences and the creation of equity and inclusion in the workplace.

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| 0101 | Allison Jennings-Roche | Seats (Total: 20) |
| | Class time/details on ELMs | ONLINE |

**INST898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**INST899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# ISRL Israel Studies Fall 2024

**ISRL249C** **Selected Topics in Israel Studies; Contemporary Israel: History and Society**

*Topics in the study of Zionism and contemporary Israel from the 1880's to the present. Future offerings may address history, politics, or culture.*

**Contact department for information to register for this course.**

**ISRL249D** **Selected Topics in Israel Studies; Women in Israel**

*Topics in the study of Zionism and contemporary Israel from the 1880's to the present. Future offerings may address history, politics, or culture.*

**Contact department for information to register for this course.**

**ISRL249E** **Selected Topics in Israel Studies; Writing Israel**

*Topics in the study of Zionism and contemporary Israel from the 1880's to the present. Future offerings may address history, politics, or culture.*

**Contact department for information to register for this course.**

**ISRL249J** **Selected Topics in Israel Studies; Start-up Nation? Tech Entrepreneurship in Israel**

*Topics in the study of Zionism and contemporary Israel from the 1880's to the present. Future offerings may address history, politics, or culture.*

Cross-listed with ECON298I and BMGT298L. Credit only granted for ISRL249J, ECON298I, or BMGT298L. This interdisciplinary course will explore the unique ecosystem that has contributed to the creation and success of the Israeli tech sector. The course addresses cultural, historical, and social factors and examines key moments and individuals in the country's startup landscape.Through case studies, guest lectures, and interactive projects, students will gain practical insights into entrepreneurship. The course also addresses the ethical considerations and social impacts of entrepreneurship in Israel, providing a well-rounded understanding of the complexities of starting a business in this dynamic environment.

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| 0101 | Aner Tal | Seats (Total: 35) |
| | TuTh 12:30pm - 1:45pm | PLS 1113 |

**ISRL329C** **Special Topics in Israel Studies; Israel: Politics and Society**

*Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.*

Cross-listed with GVPT368D. Credit only granted for ISRL329C or GVPT368D. This course will address the main issues in Israeli politics and society by focusing on the role of Zionism in the Jewish state, the institutional foundations of Israeli democracy, the main political parties and blocs and their different ideological principles and visions, as well as the main social groups, movements, and institutions that comprise Israeli civil society.

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| 0101 | Ilai Saltzman | Seats (Total: 35) |
| | MW 3:30pm - 4:45pm | ESJ B0320 |

**ISRL342** **History of Modern Israel**

*Cross-listed with HIST376.  Credit only granted for: HIST376 or ISRL342.*

*History of modern Israel since the beginning of the Zionist settlement in 1882. Attention to different interpretations and narratives of Israel's history, including the historical and ideological roots of Zionism, the establishment of the State of Israel, ideological forces, wars, and the triumphs and crises of democracy.*

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|---|---|---|
| 0101 | Paul Scham | Seats (Total: 35) |
| | TuTh 11:00am - 12:15pm | KEY 0102 |

**ISRL349A** **Investigating Topics in Israel Studies; The Psychology of Conflict Resolution**

*Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.*

**Contact department for information to register for this course.**

**ISRL349B** **Investigating Topics in Israel Studies; Arab-Israeli Relations**

*Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.*

**Contact department for information to register for this course.**

**ISRL349D** **Investigating Topics in Israel Studies; The Right in Israel: A Historical Examination**

*Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.*

Cross-listed with HIST328F and GVPT368I. Credit only granted for ISRL349D, HIST328F, or GVPT368I. Israel has been moving towards the political Right during the last 30 years, as became obvious in its last election in November 2022. This course explores the history of that movement, beginning before Israel became a state, but focusing primarily on 1967 to the present. No previous knowledge of Israeli history required. Contact the instructor for more information.

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| 0101 | Paul Scham | Seats (Total: 25) |
| | TuTh 3:30pm - 4:45pm | JMZ 2120 |

**ISRL349G** **Investigating Topics in Israel Studies; Tzahal: The Israeli Military in State, Society, and its Middle Eastern Context**

*Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.*

Crosslisted with GVPT368F. Credit only granted for ISRL349G or GVPT368F. This course offers an introduction to general concepts of civil-military relations with a strong focus on the Israeli case. Situating Israel within the Middle East context, the course readings and class discussions will include comparative references to major regional players, such as Egypt, Turkey, Iran, and the Arab Gulf States. The military is a salient feature of all Middle Eastern states; we will explore how Israel both resembles and differs from other states in the region regarding the role of its military and of civil-military relations.

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| 0101 | Marwa Maziad | Seats (Total: 30) |
| | TuTh 12:30pm - 1:45pm | ONLINE |

**ISRL349Y** **Investigating Topics in Israel Studies; Environmental and Sustainable Development in Israel**

*Topics in the study of Zionism and contemporary Israel from the 1880's to the present at an intermediate level. Individual sections may address history, politics, or culture.*

Cross-listed with GVPT368K. Credit only granted for ISRL349Y or GVPT368K. Relationships between the environment and different communities that share it, specifically in and around Israel, given the negative effects of climate change and environmental degradation throughout the Middle East. We will examine the ecological and environmental challenges Israel has faced over the years, the many innovative ways in which it has worked to overcome these challenges, and the tasks that still lie ahead. Finally, we will look at the nexus between sustainable development and sustainable peace within and between diverse communities.

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| 0101 | Adina Friedman<br>Th 5:00pm - 7:30pm | Seats (Total: 35)<br>ONLINE |

**ISRL369C** **Special Topics in Study Abroad; Israeli Society in Israeli Cinema**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ISRL448R** **Seminar in Israel Studies; Introduction to Human Rights in Israel**

*Intensive study of an Israel Studies topic. Expected work product is a substantial research or analysis paper or appropriate equivalent.*

Cross-listed with GVPT368R. Credit only granted for ISRL448R or GVPT368R. Provides an overview of how the State of Israel deals with human rights of its citizens, and also non-citizens over which it has control. It will introduce Israel s legal system, human rights record, and its methods of dealing with human rights violations, including those impacting the Arab minority in Israel, women's rights, and those of the Palestinians in the Occupied Territories.

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| 0101 | Morad Elsana<br>W 6:00pm - 8:30pm | Seats (Total: 25)<br>TLF 1101 |

# ITAL Italian Fall 2024

**ITAL103** **Intensive Elementary Italian**

*Prerequisite: Must have appropriate World Language Placement Test (WLPT) score. Restriction: Not open to fluent/native speakers of Italian. Credit only granted for: ITAL103 or ITAL121.*

*Covers speaking, reading, writing, listening, and culture of Italian-speaking world.*

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| 0101 | Alessandra Gavagni<br>TuTh 9:30am - 10:45am<br>W 10:00am - 10:50am | Seats (Total: 15)<br>JMZ 2125<br>JMZ 1120 |
| 0201 | Alessandra Gavagni<br>TuTh 11:00am - 12:15pm<br>W 11:00am - 11:50am | Seats (Total: 15)<br>JMZ 2125<br>JMZ 1120 |

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| 0301 | Joseph Falvo<br>MW 2:00pm - 3:15pm<br>F 2:00pm - 2:50pm | Seats (Total: 15)<br>JMZ 2125<br>ONLINE |

**ITAL169C** **Special Topics in Study Abroad I; Italian Conversation**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ITAL169E** **Special Topics in Study Abroad I; Elementary Italian I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ITAL169R** **Special Topics in Study Abroad I; Introduction to Italian Language and Culture**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ITAL203** **Intensive Intermediate Italian**

*Prerequisite: ITAL103; or must have appropriate World Language Placement Test (WLPT) score. Restriction: Must not have completed ITAL122; and must not be a fluent/native speaker of Italian. Credit only granted for: ITAL203 or ITAL122.*

*Covers speaking, reading, writing, listening, and culture of Italian-speaking world.*

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|---|---|---|
| 0101 | Alessandra Gavagni<br>TuTh 2:00pm - 3:15pm<br>W 2:00pm - 2:50pm | Seats (Total: 15)<br>JMZ 2125<br>JMZ 1120 |
| 0201 | Mirella Vaglio<br>MW 11:00am - 12:15pm<br>F 11:00am - 11:50am | Seats (Total: 15)<br>JMZ 0120<br>ONLINE |

**ITAL204** **Advanced Intermediate Italian**

*Prerequisite: ITAL203 or equivalent; or must have appropriate World Language Placement Test (WLPT) score.*

*An intensive study of Italian language and culture. This course completes the sequence of ITAL 103 and 203. After a brief review of important material of Intermediate Italian (ITAL 203), we will cover the last four chapters of Parliamo italiano (Unita 9-12). ITAL 204 is designed to reinforce and deepen the students' knowledge of Italian and its idiomatic usage, and to improve their reading and writing skills through a more in-depth study of more complex grammatical forms. Students are encouraged to practice Italian using grammatical concepts in an active manner. There will be oral and written exercises, short readings, and vocabulary expansion. Special attention will be given to readings, oral comprehension and written compositions. To improve their listening and reading comprehension, students will also view and analyze film clips, and read short articles in newspapers and magazines on current events and global issues pertaining to Italy and the European Union.*

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| 0101 | Alessandra Gavagni | Seats (Total: 15) |
| | TuTh 3:30pm - 4:45pm | JMZ 1124 |

**ITAL207** **Speaking and Writing in Italian**

*Prerequisite: ITAL204; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a fluent/native speaker of Italian.*

*An intensive upper intermediate language course that focuses on Italian speaking and writing. The course, which is taught entirely in Italian, is designed to reinforce and deepen the students' knowledge of the Italian language and its idiomatic usage, and to improve their speaking ability and listening comprehension. Students will be given practice both in speaking extemporaneously and giving oral reports written on a wide range of topics dealing with contemporary Italy. One of the main objectives of the course is to prepare students to take upper level courses (300-400 levels) in Italian language, literature, and culture*

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|---|---|---|
| 0101 | Mirella Vaglio | Seats (Total: 15) |
| | MW 1:00pm - 1:50pm | JMZ 0120 |
| | F 1:00pm - 1:50pm | ONLINE |

**ITAL211** **Intermediate Conversation**

*Prerequisite: ITAL203; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not be a fluent/native speaker of Italian.*

*Practice in spoken Italian based on reading and listening exercises in a variety of genres. Written assignments and exams.*

**Contact department for information to register for this course.**

**ITAL269I** **Special Topics in Study Abroad II; Intensive Intermediate Italian I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ITAL269R** **Special Topics in Study Abroad II; Elementary Italian I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**ITAL301** **Italian Composition**

*Prerequisite: ITAL207; or students who have taken courses with comparable content may contact the department.*

*Techniques of composition; grammatical analysis; various genres; vocabulary.*

**Contact department for information to register for this course.**

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**ITAL306** **Commercial Italian I**

*Prerequisite: ITAL301; or permission of ARHU-School of Languages, Literatures, and Cultures department.*

*An introduction to Italian Business language and culture. Special emphasis on communicative strategies used in business transactions and applications. Reading and discussion of relevant articles relating to business world from on-line newspapers and magazines.*

**Contact department for information to register for this course.**

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**ITAL369W** **Special Topics in Study Abroad III; Composition and Style**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

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**ITAL386** **Experiential Learning**

(Perm req)

*Prerequisite: Must have a Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor. Restriction: Junior standing or higher.*

**Contact department for information to register for this course.**

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**ITAL399** **Directed Study in Italian**

(Perm req)

*Intended for undergraduates who wish to work on an individual basis with a professor of their choice.*

**Contact department for information to register for this course.**

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**ITAL411** **Monsters and Demons: the Faces of Evil in Dante's Inferno**

*An interdisciplinary study of Dante's Inferno as represented in the Divine Comedy. Special emphasis on Dante's own portrayal of monsters and demons and their roles in the poet's eschatological vision of Hell.Taught in English*

**Contact department for information to register for this course.**

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**ITAL431** **Italian Civilization in Translation**

*Credit only granted for: ITAL431 or ITAL432.*

*Political, social, intellectual, literary and artistic forces shaping contemporary Italy from the late Middle Ages to the present. Taught in English.*

**Contact department for information to register for this course.**

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**ITAL436** **Italian Cinema I: Neorealism**

*Cross-listed with: CINE441. Credit only granted for: CINE441, FILM441 or ITAL436. Formerly: FILM441.*

*Explores representations of Italy in cinema with special focus on identity formation and the movement of Italian neorealism and post neorealism. Taught in English.*

| | | |
|---|---|---|
| 0101 | Mauro Resmini | Seats (Total: 25) |
| | TuTh 11:00am - 12:15pm | ESJ B0322 |

**ITAL441** **The Dark Side of the Italian Renaissance**

*Recommended: Some knowledge of Italian at the elementary or intermediate level.*

*Examines the dark aspects of the Italian Renaissance, focusing on artistic and literary patronage as a strategy of self-promotion and as a means to achieve and preserve power. From the Northern court of Milan to the Southern Kingdom of Naples, we journey through the Italian peninsula, a land that gave birth to illustrious artists and poets in one of the most troubled periods of Italian history, marked by political conflict, bloody rivalries, family betrayals, and wars. What hides beneath the image of some of these benevolent and enlightened patrons of learning, often praised as "ideal rulers" by artists and writers of the Renaissance, are ambitious and crafty politicians, who sought their own interests and goals in their ruthless pursuit of power*

| | | |
|---|---|---|
| 0101 | Joseph Falvo | Seats (Total: 25) |
| | MWF 1:00pm - 1:50pm | JMZ 2123 |

**ITAL471** **Italian Cinema: A Cultural Approach in Translation**

*Credit only granted for: ITAL471 or ITAL472.*

*The culture of Italy through the medium of film from the silent days up to the present. Taught in English.*

**Contact department for information to register for this course.**

**ITAL478I** **Colloquium in Italian; The Dark Side of the Italian Renaissance**

*Colloquium section taught in Italian to accompany 400-level Italian courses taught in English. Discussion, presentations, readings.*

Corerequisite: ITAL499I.

| | | |
|---|---|---|
| 0101 | Joseph Falvo | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**ITAL478Y** **Colloquium in Italian; Italian Cinema I**

*Colloquium section taught in Italian to accompany 400-level Italian courses taught in English. Discussion, presentations, readings.*

Corerequisite: ITAL436

| | | |
|---|---|---|
| 0101 | Mauro Resmini<br>Contact instructor or department for details. | Seats (Total: 5) |

**ITAL499** **Special Topics in Italian Studies**

(Perm req)

**Contact department for information to register for this course.**

**ITAL499T** **Special Topics in Italian Studies; Italian Cities: History through Urban Form**
**Contact department for information to register for this course.**

**ITAL499V** **Special Topics in Italian Studies; Italian Comedy on Stage and Screen**
**Contact department for information to register for this course.**

# JAPN Japanese Fall 2024

**JAPN101** **Elementary Japanese I**

*Prerequisite: Must have appropriate World Language Placement Test (WLPT) score.*

*Introduction to basic patterns of contemporary spoken Japanese and to the two phonetic syllabaries (Katakana and Hiragana).*

| | | |
|---|---|---|
| 0101 | Makiko Inoue, Sanshiroh Ogawa<br>MWF 10:00am - 10:50am<br>TuTh 9:30am - 10:45am | Seats (Total: 15)<br>JMZ 0208<br>JMZ 0208 |
| 0201 | Makiko Inoue, Sanshiroh Ogawa<br>MWF 11:00am - 11:50am<br>TuTh 11:00am - 12:15pm | Seats (Total: 15)<br>JMZ 0208<br>JMZ 0208 |
| 0301 | Makiko Inoue, Sanshiroh Ogawa<br>MWF 2:00pm - 2:50pm<br>TuTh 2:00pm - 3:15pm | Seats (Total: 15)<br>JMZ 0208<br>JMZ 0208 |

**JAPN201** **Intermediate Japanese I**

*Prerequisite: Minimum grade of C- in JAPN102; or or appropriate World Language Placement Test (WLPT) score.*

*Contemporary spoken and written Japanese.*

| | | |
|---|---|---|
| 0101 | Kumiko Akikawa<br>MWF 11:00am - 12:50pm | Seats (Total: 15)<br>JMZ 1226 |
| 0201 | Kumiko Akikawa<br>MWF 1:00pm - 2:50pm | Seats (Total: 15)<br>JMZ 1226 |

**JAPN301** **Advanced Japanese I**

*Prerequisite: Minimum grade of C- in JAPN202; or permission of instructor.*

*Advanced conversation, oral comprehension, and selected readings.*

| | | |
|---|---|---|
| 0101 | Mari Hamada<br>MWF 10:00am - 11:50am | Seats (Total: 15)<br>JMZ 1103 |
| 0201 | Mari Hamada<br>MWF 12:00pm - 1:50pm | Seats (Total: 15)<br>JMZ 1103 |

**JAPN335** **Troubling Gender and Sex in Japan**

*There are a number of overly stereotypical gendered and sexualized images of Japanese in the United States. Consider, for instance, the continued dominance of the icons of Japan, the Samurai and Geisha. An examination of the wide variety of representations of femininity and masculinity and gender and sexual identities in Japan, however, offers us a fruitful opportunity to expand and challenge even our most inclusive ideas of gender and sexuality. The title of this course derives from a feminist, theoretical work by Judith Butler, Gender Trouble. Putting a critical lens to fiction, film, drama, art, and legal documents, we will trouble (complicate and deconstruct) received notions of gender and sexuality in a number of fundamental ways.*

| | | |
|---|---|---|
| 0101 | Michele Mason<br>TuTh 2:00pm - 3:15pm | Seats (Total: 25)<br>JMZ 2122 |

**JAPN386** **Experiential Learning**

(Perm req)

*Prerequisite: Must have a Learning Proposal approved by the Office of Experiential Learning Programs, faculty sponsor, and student's internship sponsor. Restriction: Junior standing or higher.*

**Contact department for information to register for this course.**

**JAPN401** **Readings in Modern Japanese Literature**

*Prerequisite: Minimum grade of C- in JAPN302; or permission of instructor.*

*Development of advanced reading, vocabulary, grammar, and translation skills through selected readings in Japanese drawn primarily from modern literature.*

| | | |
|---|---|---|
| 0101 | Jyana Browne<br>TuTh 2:00pm - 3:15pm | Seats (Total: 15)<br>JMZ 1124 |

**JAPN498B** **Special Topics in Japanese Studies; The Supernatural and the Strange in Classical Japan**

*Special topics in Japanese studies. Taught in English.*

This course investigates supernatural and strange occurrences in novels, plays, folk tales, and ghost stories from the Heian, Medieval, and Edo periods. Through close reading of literary texts, picture scrolls, and performances, we will explore how the presence of eerie and otherworldly tropes provided a means to make sense of the natural, spiritual, and socio-political worlds in premodern Japan. Taught in English.

| | | |
|---|---|---|
| 0101 | Jyana Browne<br>TuTh 12:30pm - 1:45pm | Seats (Total: 25)<br>JMZ 2122 |

**JAPN499** **Directed Study in Japanese**

(Perm req)

**Contact department for information to register for this course.**

# JOUR Journalism Fall 2024

**JOUR130** **Self-Presentation in the Age of YouTube**

*Credit only granted for: COMM107, COMM200, ENES143, INAG110, JOUR130 or THET285. Additional information: May not count toward the Journalism major.*

*Students, as they make use of evolving technologies, need to be able to present themselves effectively in front of any number of different audiences through any number of different outlets. Whether in an interview on radio, a guest presentation at a conference, in comments on a video blog, in commentary on TV, in the lead on a self-produced YouTube video, or as spokesperson in front of investors or management, professionals need strong oral communication skills. This class focuses on strengthening those skills through active individual and group presentations, as well as, through discussion of key techniques and group critique of presentation publicly available in the social media space on sites such as YouTube.*

| | | |
|---|---|---|
| 0201 | George Lanum<br>TuTh 12:30pm - 1:45pm | Seats (Total: 22)<br>KNI 1206 |
| FC01 | Amber Moore<br>TuTh 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 22)<br>KNI 1103 |
| FC03 | Mark Gray<br>TuTh 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 22)<br>KNI 1103 |
| FC04 | Hamil Harris, Ivy Lyons<br>MW 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 22)<br>KNI 1103 |

| | | |
|---|---|---|
| FC05 | Teona Goderdzishvili, Hamil Harris<br>MW 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 22)<br>KNI 1103 |

**JOUR150** **Introduction to Mass Communication**

*Additional information: Not applicable toward journalism major.*

*Survey of the functions and effects of the mass media in the United States. A consumer's introduction to newspapers, television, radio, film, sound recording, books, magazines, and new media technology.*

| | | |
|---|---|---|
| 0101 | Edward Alwood<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>KNI 1103 |
| 0201 | Mengyuan Chen<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>KNI 1103 |
| 0301 | Edward Alwood<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>KNI 1103 |
| 0401 | Denitsa Yotova<br>Class time/details on ELMs<br>*This section meets asynchronously.* | Seats (Total: 30)<br>ONLINE |
| 0701 | Denitsa Yotova<br>Class time/details on ELMs<br>*This section meets asynchronously.* | Seats (Total: 30)<br>ONLINE |

**JOUR152** **Introduction to Storytelling with Code**

(Perm req)

*Prerequisite: Must have completed or be concurrently enrolled in JOUR200.*

*An introduction to the ways markup and programming languages and computational thinking are transforming news reporting and storytelling.*

| | | |
|---|---|---|
| 0201 | Naeemul Hassan<br>**Meets October 16, 2024 - December 9, 2024**<br>Class time/details on ELMs | Seats (Total: 100)<br><br>ONLINE |

**JOUR175** **Media Literacy**

*Additional information: Not applicable toward journalism major.*

*An analysis of the information, values and underlying messages conveyed via television, newspapers, the internet, magazines, radio and film. Examines the accuracy of those messages and explores how media shape views of politics, culture and society.*

| | | |
|---|---|---|
| 0101 | Susan Moeller<br>Class time/details on ELMs | Seats (Total: 45)<br>ONLINE |
| 0201 | Susan Moeller<br>Class time/details on ELMs | Seats (Total: 45)<br>ONLINE |
| 0301 | Susan Moeller<br>Class time/details on ELMs | Seats (Total: 45)<br>ONLINE |

**JOUR181** **Grammar for Journalists**

(Perm req)

*Credit only granted for: ENGL181, ENGL281, or JOUR181.*

*The basic grammatical structures of standard American written English and its conventions of punctuation, diction and usage in journalistic writing.*

| | | |
|---|---|---|
| 0101 | Nicoletta Kern<br>M 10:00am - 10:50am | Seats (Total: 170)<br>ONLINE |
| FC01 | Nicoletta Kern<br>Th 4:30pm - 5:20pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>KNI 3200 |

**JOUR199** **Survey Apprenticeship**

(Perm req)

*College-monitored experience in approved mass-communications organizations and industries.*

| | | |
|---|---|---|
| 0101 | Karen Denny<br>Contact instructor or department for details. | Seats (Total: 40) |

**JOUR200** **Journalism History, Roles and Structures**

(Perm req)

*Introduction to the study of journalism from the standpoint of media history and sociology.*

| | | |
|---|---|---|
| 0301 | Wenyou Ye<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>KNI 1105 |

| | | |
|---|---|---|
| 0401 | Ivy Lyons<br>MW 12:30pm - 1:45pm | Seats (Total: 30)<br>KNI 1208 |
| 0501 | Christopher Mergerson<br>TuTh 9:30am - 10:45am | Seats (Total: 30)<br>KNI 1208 |
| 0601 | Christopher Mergerson<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>KNI 1105 |
| FC01 | Carole Lee<br>MW 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>KNI 1208 |

**JOUR201** **News Writing and Reporting I**

(Perm req)

*Prerequisite: Minimum grade of C- in ENGL101, JOUR181, and JOUR200; and permission of JOUR-Philip Merrill College of Journalism. Restriction: For students intending to be journalism majors; and permission of JOUR-Philip Merrill College of Journalism.*

*Introduction to news for the print and electronic media, development of new concepts: laboratory in news-gathering tools and writing skills. Students who earned 80% or higher on the JOUR181 diagnostic are exempt from the JOUR181 prerequisite.*

| | | |
|---|---|---|
| 0101 | Rob Wells<br>TuTh 3:00pm - 4:50pm | Seats (Total: 18)<br>KNI 2107 |
| 0501 | Merrilee Cox<br>MW 12:00pm - 1:50pm | Seats (Total: 18)<br>KNI 2103 |

**JOUR202** **News Editing**

(Perm req)

*Prerequisite: JOUR201. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.*

*Copy editing, fact checking, verification and research across media platforms, including social, with consideration of story play and placement, graphic principles, headlines and SEO.*

| | | |
|---|---|---|
| 0201 | Jodi Friedman<br>MW 9:00am - 10:50am | Seats (Total: 18)<br>KNI 2107 |

**JOUR281** **Media Law and Ethics in the Digital Age**

*Credit only granted for: JOUR289E or JOUR281. Formerly: JOUR289E. Additional information: This course is intended for non-journalism majors.*

*What are our legal rights and ethical responsibilities as citizens of the digital world? That is the big question we will be exploring this semester. Along the way, you will learn the constitutional foundations of free speech and consider their present-day applications to information gathering and sharing by citizens through social media and online platforms. You will come away with a practical working knowledge of the First Amendment, public access laws, libel, privacy, copyright. You'll develop critical thinking skills for recognizing and dealing with common ethical issues in digital communication.*

| | | |
|---|---|---|
| 0101 | Deborah Nelson | Seats (Total: 70) |
| | Class time/details on ELMs | ONLINE |

**JOUR282** **Beyond Facebook: How Social Media are Transforming Society, Culture, Business and Politics**

*Credit only granted for: JOUR289F or JOUR282. Formerly: JOUR289F.*

*How has social media changed the world, and how has the world changed social media? This course explores how social media has influenced relationships, culture, industry, politics, and the information environment, as well as how significant global events and technological advancements have contributed to the evolution of social media. This course gives students a broad contextual understanding of social media that they may apply in their daily lives as well as future academic inquiry.*

| | | |
|---|---|---|
| 0201 | Wei-Ping Li | Seats (Total: 35) |
| | Class time/details on ELMs | ONLINE |

**JOUR283** **Probing War: Investigative Narratives and American Conflicts**

*Credit only granted for: JOUR283 or JOUR289J. Formerly: JOUR289J.*

*What role should the American news media play when the United States is at war? Students will explore the realities of war through the work of journalists who pushed beyond the daily headlines, some risking life and limb, to challenge official versions and document uncomfortable realities about American conflicts.*

| | | |
|---|---|---|
| 0101 | Christopher Hanson | Seats (Total: 30) |
| | MW 11:00am - 12:15pm | KNI 1208 |

**JOUR289I** **Information 3.0: Exploring Technological Tools**

*In a mobile social media world with unlimited amounts of digital information available on demand, what does the future hold for a population that spends hours on their devices seeking, selecting, and sharing more entertaining content than critical information about national and world issues? This course explores innovative ways for producing digital content and engaging diverse audiences with important topics, such as those related to every student's major. Students also utilize new metric tools to answer the question asking how today's digital audiences consume various forms of media and content.*

Students will expand their understanding of various digital information and the issues it raises, evaluate media research investigating how users interact with information for different purposes, analyze how diverse audiences seek, select, share and produce various types of digital information, and evaluate the ethics related to digital privacy and security.

| | | |
|---|---|---|
| 0101 | Ronald Yaros<br>Tu 11:00am - 12:15pm<br>Class time/details on ELMs<br>*Students in this section will use a custom mobile app.* | Seats (Total: 70)<br>ONLINE<br>ONLINE |

**JOUR320** **News Writing and Reporting II: Multiplatform**

(Perm req)

*Prerequisite: Must have completed or be concurrently enrolled in JOUR152; and minimum grade of C- in JOUR201; and must have completed or be concurrently enrolled in JOUR262 or JOUR370. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.*

*Principles and practices of news reporting; covering news beats and other news sources, including researching news stories for accuracy, comprehensiveness and interpretation. Due to rigorous publication requirement, plan your schedule accordingly.*

| | | |
|---|---|---|
| 0101 | Jerry Zremski<br>TuTh 2:00pm - 3:50pm | Seats (Total: 18)<br>KNI 2103 |
| 0201 | David Lightman<br>TuTh 8:00am - 9:50am | Seats (Total: 18)<br>KNI 2105 |
| 0401 | Jamaal Abdul-Alim<br>MW 12:00pm - 1:50pm | Seats (Total: 18)<br>KNI 2105 |
| 0501 | Abbie Bennett<br>MW 7:00pm - 8:50pm | Seats (Total: 18)<br>KNI 1101 |
| 0601 | Clarence Williams<br>TuTh 11:30am - 1:20pm | Seats (Total: 18)<br>KNI 1101 |

**JOUR325** **Capital News Service Bureau**

(Perm req)

*Prerequisite: JOUR320; and permission of JOUR-Philip Merrill College of Journalism.*

*Advanced journalism training. Students report as part of college's Capital News Service program.*

Jointly offered with JOUR625. Students must contact the instructor for permission to register. Washington, DC students should enroll in section 0101. Annapolis students should enroll in section 0201. College Park students should enroll in section 0301 or section 0401, depenging on their bureau.

| | | |
|---|---|---|
| 0101 | James Carroll | Seats (Total: 9) |
| | Contact instructor or department for details. | |
| | *This section meets in the CNS Bureau, Washington, DC.* | |
| 0201 | Christi Parsons | Seats (Total: 9) |
| | Contact instructor or department for details. | |
| | *This section meets in the CNS Bureau, Annapolis, MD.* | |
| 0301 | Adam Marton | Seats (Total: 9) |
| | Contact instructor or department for details. | |
| | *This section meets in the CNS Bureau, College Park, MD.* | |
| 0401 | Stacey Decker | Seats (Total: 9) |
| | Contact instructor or department for details. | |
| | *This section meets in the CNS Bureau, College Park, MD.* | |

**JOUR328F** **Special Topics in News Writing and Reporting; Reporting on Journalists Imprisoned Overseas**

(Perm req)

*Advanced training and practice in writing and reporting news.*

Prerequisite: JOUR320 Students will dip into national security and diplomatic reporting by learning to research the context, laws and international pressure surrounding an individual journalist imprisoned in a particular country. Students will learn how to find sources and conduct interviews with diplomats, experts, reporters and family members living overseas while never leaving College Park.

| | | |
|---|---|---|
| 0101 | Dana Priest | Seats (Total: 9) |
| | M 9:30am - 12:15pm | KNI 3200 |

**JOUR328G** **Special Topics in News Writing and Reporting; Sports Enterprise Reporting**

(Perm req)

*Advanced training and practice in writing and reporting news.*

Prerequisite: JOUR320. Students will work as a team on a sports enterprise project. Previous topics have included gender equity in sports, youth sports & the media, betting and college sports, the economic impact of a new stadium on a city, and the future of football.

| | | |
|---|---|---|
| 0101 | Mark Hyman | Seats (Total: 11) |
| | M 1:00pm - 3:45pm | KNI 1101 |

**JOUR328I** **Special Topics in News Writing and Reporting; Turning Your Degree into Multiple Career Options**

*Advanced training and practice in writing and reporting news.*

Prerequisite: Must have earned at least 45 credits. Whether you love your major or hate it, it doesn't matter. That's because the many skills you're learning in journalism and other humanities majors like -- English, History, Government & Politics, Philosophy, Sociology, etc -- are transferable into countless industries. You'll learn step-by-step how to inventory the most valuable skills you've gained inside and outside the classroom and translate them into tangible job functions that exist in almost any industry you can imagine. From Aeronautics to Architecture, from Hedge Funds to Health Care, from IG & TikTok from Intelligence & Foreign Affairs, this will be a course unlike any other you've taken in college because its sole focus is to help you identify at least three career options you'd be excited to pursue after you graduate and then show you how to use LinkedIn to uncover those jobs and internships.

| | | |
|---|---|---|
| 0101 | Andrea Koppel | Seats (Total: 20) |
| | **Meets August 26, 2024 - October 15, 2024** | |
| | M 1:30pm - 2:20pm | KNI 3200 |
| | Class time/details on ELMs | ONLINE |
| | *The first class and the last class meet in-person and the other sessions are asynchronous.* | |

**JOUR328P** **Special Topics in News Writing and Reporting; Enterprise Reporting and Solutions Journalism**

(Perm req)

*Advanced training and practice in writing and reporting news.*

Restriction: JOUR320 and permission of instructor (jzremski@umd.edu). Students will learn to report and craft in-depth enterprise stories that will be published as part of a project produced for Merrill College's Local News Network. Students will also learn the tenets of solutions journalism and will produce solutions stories as their final project.

| | | |
|---|---|---|
| 0101 | Jerry Zremski | Seats (Total: 10) |
| | W 2:00pm - 4:45pm | KNI 2103 |

**JOUR334** **Audio and Podcast Reporting**

(Perm req)

*Prerequisite: JOUR360. Formerly: JOUR368L.*

*Students will learn the tools needed to report and produce short- and long-form audio storytelling, including writing, reporting, interviewing, production, editing, hosting and delivery. Field reporting and audio gathering outside of class are required, along with writing and mixing broadcast-quality audio stories. Students will work together to produce a complete radio broadcast on deadline, with live and pre-recorded elements. Various interests in audio reporting are welcome and encouraged.*

| | | |
|---|---|---|
| 0101 | Steven Drummond | Seats (Total: 9) |
| | Tu 5:30pm - 8:15pm | KNI 1101 |

**JOUR347** **News Videography**

(Perm req)

*Prerequisite: Must have completed or be concurrently enrolled in JOUR201. Restriction: Permission of JOUR-Philip Merrill College of Journalism. Jointly offered with: JOUR603. Credit only granted for: JOUR262, JOUR347 or JOUR603. Formerly: JOUR262.*

*Introduction to shooting, editing and production of video stories for broadcast and the Web; includes newsgathering in the field.*

| | | |
|---|---|---|
| 0101 | Kara Dixon<br>M 5:00pm - 6:50pm<br>Th 6:10pm - 8:00pm | Seats (Total: 12)<br>TWS 0222B<br>TWS 0222A |
| 0301 | Benjamin Worsley<br>TuTh 7:00pm - 8:50pm | Seats (Total: 12)<br>TWS 0222B |

**JOUR352 Interactive Design and Development**

(Perm req)

*Prerequisite: JOUR152; and JOUR201; and must have completed or be concurrently enrolled in JOUR262 or JOUR370. Or permission of JOUR-Philip Merrill College of Journalism. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Jointly offered with JOUR652. Credit only granted for: JOUR352 or JOUR652.*

*Conceptualize, wireframe, design and build responsive Web pages using HTML, style sheets and other coding tools; work with open source interactive tools, JavaScript libraries, multimedia and text to create charts, timelines, maps and other forms of nonfiction storytelling.*

| | | |
|---|---|---|
| 0201 | Stacey Decker<br>W 11:30am - 2:15pm | Seats (Total: 16)<br>KNI 1101 |
| 0301 | Kalani Gordon<br>Th 5:30pm - 8:15pm | Seats (Total: 18)<br>ONLINE |
| 0401 | Adam Marton<br>M 11:00am - 12:50pm<br>W 11:00am - 12:50pm | Seats (Total: 12)<br>KNI 2107<br>ONLINE |
| 0501 | Gagan Nirula<br>Th 5:30pm - 8:15pm | Seats (Total: 18)<br>KNI 1101 |

**JOUR353 News Bureau: Multimedia Reporting**

(Perm req)

*Prerequisite: JOUR352; and permission of JOUR-Philip Merrill College of Journalism; and (JOUR320 or JOUR360).*

*Advanced reporting and writing in an online environment focusing on multimedia, non-traditional storytelling and investigative reporting.*

| | | |
|---|---|---|
| 0201 | Christi Parsons<br>Contact instructor or department for details.<br>*This section is for students in the Annapolis bureau.* | Seats (Total: 7) |
| 0301 | James Carroll<br>Contact instructor or department for details.<br>*This section is for students in the Washington, D.C. bureau.* | Seats (Total: 7) |

**JOUR355** **News Bureau: Multimedia Editing and Production**

(Perm req)

*Prerequisite: JOUR320 or JOUR360; and JOUR352; and permission of JOUR-Philip Merrill College of Journalism.*

*Advanced online journalism training. Students work as multimedia and social media editors and producers, building interactive content and special reports.*

| | | |
|---|---|---|
| 0101 | Adam Marton<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0201 | Stacey Decker<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0501 | James Carroll<br>Contact instructor or department for details. | Seats (Total: 1) |

**JOUR357** **Capital News Service Broadcast Immersion**

(Perm req)

*Prerequisite: JOUR361; and permission of JOUR-Philip Merrill College of Journalism.*

*Advanced broadcast journalism training. Students report as part of the College's Capital News Service program.*

| | | |
|---|---|---|
| 0101 | Melvin Coffee<br>Contact instructor or department for details. | Seats (Total: 7) |

**JOUR360** **News Writing and Reporting II: Broadcast**

(Perm req)

*Prerequisite: Minimum grade of C- in JOUR201.  Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism.*

*Writing and reporting for broadcast media: production of news stories.*

| | | | |
|---|---|---|---|
| 0201 | Alison Burns<br>MW 10:00am - 11:50am | Seats (Total: 12)<br>KNI 2105 | |
| 0401 | Elizabeth Feldman<br>MW 11:00am - 12:50pm | Seats (Total: 16)<br>TWS 0222B | |

**JOUR361** **Television Reporting and Production**

(Perm req)

*Prerequisite: JOUR262 and JOUR360.*

*Writing and editing for the broadcast media. Interpretive and documentary news stories.*

Due to rigorous fieldwork requirement, plan your schedule accordingly.

| | | | |
|---|---|---|---|
| 0301 | Joshua Davidsburg<br>TuTh 12:00pm - 1:50pm | Seats (Total: 11)<br>TWS 0222B | |

**JOUR362** **Broadcast News Producing**

(Perm req)

*Prerequisite: JOUR347 and JOUR360. Jointly offered with: JOUR662. Credit only granted for: JOUR362 or JOUR662.*

*Producing TV news.*

| | | | |
|---|---|---|---|
| 0102 | Cindy Wright<br>Tu 6:30pm - 8:00pm<br>Tu 2:00pm - 6:20pm | Seats (Total: 3)<br>TWS 0117<br>TWS 0117 | <br><br>Lab |
| 0104 | Cindy Wright<br>Tu 6:30pm - 8:00pm<br>Th 2:00pm - 6:20pm | Seats (Total: 3)<br>TWS 0117<br>TWS 0117 | <br><br>Lab |

**JOUR364** **Advanced Audio and Podcast Reporting**

(Perm req)

*Prerequisite: JOUR 334. Jointly offered with: JOUR664.*

*Students will receive professional skills training in the reporting, writing, editing, voicing and production of radio news. Students will be required to do extensive field reporting, along with writing and mixing radio pieces. They will also participate in other aspects of radio news production, including editing, directing, live interviewing and hosting. By the end of the semester, students will have created all the elements of a complete radio broadcast. The class will also delve into the history and evolution of radio news and its future in podcasting and other forms.*

| | | |
|---|---|---|
| 0101 | Robert Little<br>W 5:30pm - 8:15pm | Seats (Total: 6)<br>KNI 3210 |

**JOUR367** **Broadcast News Bureau**

(Perm req)

*Prerequisite: JOUR361; and permission of JOUR-Philip Merrill College of Journalism.*

*Advanced broadcast journalism training. Students report as part of the college's Capital News Service program.*

Jointly offered with JOUR667.

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|---|---|---|
| 0101 | Melvin Coffee<br>Contact instructor or department for details. | Seats (Total: 15) |

**JOUR368L** **Topics in Broadcast and Electronic Media; Introduction to Studio Production**

(Perm req)

*Advanced research, analysis and/or practice of selected topics in broadcast journalism.*

Prerequisite: JOUR262, JOUR347, or permission of instructor - nsteven5@umd.edu. This course will take you through every production aspect related to studio production. This includes learning how to plan and execute a live studio production featuring camera crews, a floor director, producer, director, technical director, audio, and teleprompter. Labs will focus on putting together and executing a live newscast production. Students will also be able to go on live shots with reporters to run camera/lighting.

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|---|---|---|
| 0101 | Nathaniel Stevens<br>TuTh 4:00pm - 6:00pm | Seats (Total: 10)<br>TWS 0116 |

**JOUR368N** **Topics in Broadcast and Electronic Media; Advanced Photojournalism**

(Perm req)

*Advanced research, analysis and/or practice of selected topics in broadcast journalism.*

Prerequisite: JOUR370. This course will provide a deeper dive into the storytelling medium of photojournalism. Students will learn the skills necessary to tell in-depth, long-term stories through the use of still photography. Topics of discussion will include the history of photojournalism, changing approaches to the photo story/photo essay overtime, how to approach a variety of potential subject matter and situations, finding long-term photo story projects and organizing images for a variety of digital and traditional formats.

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|---|---|---|
| 0101 | Timothy Jacobsen<br>F 9:00am - 11:45am | Seats (Total: 8)<br>KNI 2107 |

**JOUR368O** **Topics in Broadcast and Electronic Media; Advanced Studio Production**

(Perm req)

*Advanced research, analysis and/or practice of selected topics in broadcast journalism.*

Prerequisite: JOUR368L or permission of instructor. This course will take you through every production aspect related to studio production and work as production support for live sports or video game news shows. This includes learning how to plan and execute a live studio production featuring camera crews, a floor director, producer, director, technical director, audio, and teleprompter. It will also include post-production promo pieces for live shows, as well as social media components that are production-related.

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|---|---|---|
| 0101 | Nathaniel Stevens<br>W 4:00pm - 6:45pm | Seats (Total: 8)<br>TWS 0116 |

**JOUR368T** **Topics in Broadcast and Electronic Media; Documentary Video Production and Cinematography**

(Perm req)

*Advanced research, analysis and/or practice of selected topics in broadcast journalism.*

Prerequisite: JOUR347 or JOUR370. Introduction to shooting, editing and production of video for film and web; includes visual storytelling, story research, lighting, interviewing, editing, managing video and film projects.

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|---|---|---|
| 0101 | Alanna Kopania<br>MW 11:00am - 12:50pm | Seats (Total: 7)<br>TWS 0222A |

**JOUR368X** **Topics in Broadcast and Electronic Media; Documentary Filmmaking**

(Perm req)

*Advanced research, analysis and/or practice of selected topics in broadcast journalism.*

Prerequisite: JOUR262 or JOUR347; and JOUR320 or JOUR360. Hands-on independent documentary production. From pre-production to distribution, the class will include field production, pitching, grant writing and more.

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|---|---|---|
| 0101 | Joshua Davidsburg<br>TuTh 2:00pm - 3:50pm | Seats (Total: 8)<br>TWS 0222B |

**JOUR368Y** **Topics in Broadcast and Electronic Media; Sports Producing**

(Perm req)

*Advanced research, analysis and/or practice of selected topics in broadcast journalism.*

Prerequisite: JOUR262 or JOUR347; and JOUR360 or JOUR320. This class will take an analytical look at sports TV and sports content by deconstructing shows. We will examine the producer's role in creating the look, feel and direction of shows and learn how to choose a lead story, how to "tease" effectively and the importance of identifying and telling good stories. We will watch live televised sporting events to better understand the techniques used by directors and producers. Students will get hands-on experience with BTN2GO and learn all aspects of live game production.

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|---|---|---|
| 0101 | Joseph Yasharoff<br>W 7:00pm - 9:45pm | Seats (Total: 10)<br>KNI 2103 |

**JOUR370** **Photojournalism**

(Perm req)

*Prerequisite: Must have completed or be concurrently enrolled in JOUR201. Restriction: Permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR370 or JOUR670. Additional information: Students are required to borrow, rent or purchase a 35mm digital camera. Contact department for camera specifications.*

*Examining the basics of shooting, editing and storytelling with still photos taken with 35mm digital cameras. Students shoot portraits, feature photos and action shots. Final project is a photo story/essay.*

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|---|---|---|
| 0101 | Timothy Jacobsen<br>F 12:00pm - 2:45pm | Seats (Total: 13)<br>KNI 2107 |
| 0301 | Timothy Jacobsen<br>W 4:00pm - 6:45pm | Seats (Total: 14)<br>KNI 1101 |

**JOUR382** **Sports Reporting and Writing**

(Perm req)

*Prerequisite: JOUR320; and permission of JOUR-Philip Merrill College of Journalism. Jointly offered with: JOUR682. Credit only granted for: JOUR382 or JOUR682.*

*Gives students full and wide-ranging instruction in all aspects of sports reporting and writing, including how to report, write, edit and lay out sports stories, incorporating photography and multimedia. We will also discuss ethics, objectivity, fairness and the future of sports journalism.*

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|---|---|---|
| 0101 | Kaitlyn Wilson | Seats (Total: 13) |
| | MW 4:00pm - 5:15pm | KNI 2105 |

**JOUR389D** **News Coverage of Special Topics; Social Video Journalism**

(Perm req)

*Advanced training and practice in writing and reporting news in one specialized field of interest.*

Prerequisite: JOUR320/JOUR360 Creating strategic short-form video journalism for social media that is equally engaging, informative and creative. Skills will cover pre-production (story pitches, scripting, research), field production (standups, interviews, b-roll) and post-production (editing, graphics, audio).

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|---|---|---|
| 0101 | Jackie Padilla | Seats (Total: 15) |
| | MTh 5:20pm - 7:10pm | KNI 2107 |

**JOUR389E** **News Coverage of Special Topics; Entertainment, Arts and Culture Reporting**

(Perm req)

*Advanced training and practice in writing and reporting news in one specialized field of interest.*

Prerequisite: JOUR320. Entertainment reporting is much more than just gossip. This course will cover the ins and outs of celebrity interviews, red carpets, theater reviews, diversity in media, freelancing, pitching and narrative writing. Expect to leap out of your comfort zones and take advantage of the DMV arts scene, not to mention hone your national entertainment coverage skills.

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|---|---|---|
| 0101 | David Oliver | Seats (Total: 17) |
| | M 6:00pm - 8:45pm | KNI 2103 |

**JOUR389I** **News Coverage of Special Topics; Investigative Reporting**

(Perm req)

*Advanced training and practice in writing and reporting news in one specialized field of interest.*

Prerequisite: JOUR320. Introduces students to the skills and techniques of investigative reporting. Students will learn how to report, write and publish investigative stories.

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|---|---|---|
| 0101 | James Risen | Seats (Total: 15) |
| | M 2:00pm - 4:45pm | KNI 2103 |

**JOUR389P** **News Coverage of Special Topics; Beyond the Briefing Room: Covering the White House and National Politics in a Divided America**

(Perm req)

*Advanced training and practice in writing and reporting news in one specialized field of interest.*

Prerequisite: JOUR320. This is a course about the practice of political journalism at the highest level. We will explore political bias and objectivity, the debate over the public's right to know, national security and classification, and manipulation by White House officials. Students willfollow the 2024 election from the perspective of a correspondent on the trail. And we will work on critical skills: writing on deadline, developing sources, crafting questions for live briefings, building expertise quickly, using new technologies, and framing enterprise stories.

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|---|---|---|
| 0101 | Michael Shear | Seats (Total: 15) |
| | TuTh 9:00am - 10:50am | KNI 1101 |

**JOUR389R** **News Coverage of Special Topics; Computational Text Analysis**

(Perm req)

*Advanced training and practice in writing and reporting news in one specialized field of interest.*

Restriction: Permission of instructor (robwells@umd.edu). This course introduces students to key skills and concepts in the digital humanities and how they can be applied to content analysis. Students will learn how to gather textual data, process it and conduct computational textual analysis, sentiment analysis, narrative analysis, machine learning and topic modeling using the R programming language. Then, you will process your findings into various data visualization programs.

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|---|---|---|
| 0101 | Rob Wells | Seats (Total: 6) |
| | Tu 9:00am - 11:45am | KNI 2107 |

**JOUR389X** **News Coverage of Special Topics; Investigative Reporting with Artificial Intelligence and Open Source Intelligence (OSINT) Data**

(Perm req)

*Advanced training and practice in writing and reporting news in one specialized field of interest.*

Prerequisite: Permission of instructor (smussend@umd.edu). Some prior exposure to at least one programming or scripting language, like Python,R or JavaScript, is recommended. If you lack that, completing a few introductory, online programming tutorials assigned by the instructor before the semester starts is strongly recommended. A project-based skills course that teaches students to use cutting-edge investigative techniques that employ artificial intelligence, machine learning, generative language models or computational analysis of open source intelligence data sources, like near-real-time satellite imagery,global flight and shipping data, repositories of millions of leaked digital documents and massive collections of video files. Students will learn how leading news organizations, OSINT researchers, human rights groups and academic researchers are pioneering advanced methods to tell important stories about, for example, secret Chinese prison camps, networks of global shell companies shielding the ultra-wealthy from taxes, uncapped oil wells leaking climate-heating methane into the atmosphere, etc.

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|---|---|---|
| 0101 | Sean Mussenden | Seats (Total: 7) |
| | M 1:30pm - 4:15pm | KNI 3210 |

**JOUR396** **Supervised Internship**

(Perm req)

*Prerequisite: Must have earned a grade of C- or better in JOUR201. Restriction: Must be a major in the JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR326, JOUR366, or JOUR396.*

*Students will complete a minimum of 90 hours in a supervised journalism internship over a minimum of 10 weeks in spring and fall, and eight weeks in summer. Emphasis is on relating academic training to professional experience. To enroll, students must do the following: Fill out the internship proposal form, have their internship supervisor fill it out, and meet with the college's internship director to receive permission to register. No requests to register after the Schedule Adjustment Period will be granted.*

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|---|---|---|
| 0101 | Karen Denny<br>Contact instructor or department for details. | Seats (Total: 45) |

**JOUR398** **Independent Study**

(Perm req)

*Individual projects in journalism.*

**Contact department for information to register for this course.**

**JOUR402** **Journalism Law and Ethics**

(Perm req)

*Prerequisite: JOUR201. Credit only granted for: JOUR402 OR JOUR400 and JOUR300.*

*An examination of the legal rights and ethical problems and constraints of mass media, including libel, privacy, copyright, monopoly and contempt.*

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|---|---|---|
| 0201 | Lucy Dalglish<br>TuTh 11:00am - 12:15pm | Seats (Total: 35)<br>KNI 1208 |
| 0301 | Lucy Dalglish<br>TuTh 2:00pm - 3:15pm | Seats (Total: 35)<br>KNI 1208 |

**JOUR447** **Sports, Protest and the Media**

*Credit only granted for: JOUR447 or JOUR458M. Formerly: JOUR458M.*

*Addresses why activists, whether athletes or not, have long commanded ceremonial and ritualistic games to promote a cause or take a stand. It examines the important role of media as collectors, editors, interpreters and disseminators of information or news about athletic competitions, athletes and political pronouncements revolving around athletic events and their participants.*

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|---|---|---|
| 0101 | Kevin Blackistone<br>M 10:00am - 11:15am<br>W 10:00am - 11:15am | Seats (Total: 15)<br>KNI 1206<br>KNI 1206 |

**JOUR452** **Women in the Media**

*Cross-listed with: WGSS452. Credit only granted for: JOUR452, WMST452 or WGSS452. Formerly: WMST 452.*

*Participation and portrayal of women in the mass media from colonial to contemporary times.*

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|---|---|---|
| 0101 | Gea Ujcic | Seats (Total: 30) |
| | TuTh 2:00pm - 3:15pm | KNI 1105 |

**JOUR453** **Media Coverage of Diversity**

*Restriction: Junior standing or higher.*

*Analysis of media coverage of issues relating to diversity in the United States, with special attention to race, ethnicity, class, gender, sexual orientation and religious affiliation.*

Jointly offered with AASP499N. Analysis of news media coverage of issues relating to racial minorities in the United States, with special attention to Hispanics, Asian Americans, African Americans and Native Americans.

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|---|---|---|
| 0101 | Anne Rosen | Seats (Total: 25) |
| | TuTh 9:30am - 10:45am | KNI 3202 |

**JOUR455** **Media Entrepreneurship**

*Basic business and entrepreneurship concepts will be covered and will explore how technology is transforming the business of media. Students develop and pitch ideas for media businesses, learn startup basics, do exercises in Internet advertising and business plan analysis, use social networks and other digital communication tools, and perform other hands-on exercises in business development and presentation.*

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|---|---|---|
| 0101 | Constance Ford | Seats (Total: 18) |
| | W 10:00am - 12:45pm | KNI 3200 |

**JOUR456** **Literature in Journalism**

*Credit only granted for: JOUR456 or JOUR673.*

*From Truman Capote's In Cold Blood to Mark Bowden's Black Hawk Down, students will examine how literary works can help writers approach a subject in a different way than more traditional forms of journalism, including the advantages and limitations of the style.*

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|---|---|---|
| 0101 | Christopher Hanson | Seats (Total: 18) |
| | Tu 4:15pm - 7:00pm | KNI 3202 |

**JOUR458B** **Special Topics in Journalism; Sports Media Today**

*Issues of special concerns and current interest.*

Students will discuss working with various organizations' communications/media relations staff, coaches and players; distributing news of the organizations; and creating/maintaining methods for disseminating the news to the public in an honest and forthright manner. Also, traditional, digital and social media elements will be explored. Restriction: Junior Standing or higher.

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|---|---|---|
| 0101 | Rose DiPaula | Seats (Total: 26) |
| | Tu 3:30pm - 6:15pm | KNI 1208 |

**JOUR458F** **Special Topics in Journalism; Campaign '24: An Election Unlike Any Other**

*Issues of special concerns and current interest.*

Prerequisite: JOUR320, JOUR360 or permission of instructor (tbettag@umd.edu). You will study the daily coverage of the year's biggest story. You will own the story of the climactic hundred days that will decide between two dramatically different courses for the nation.

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|---|---|---|
| 0101 | Tom Bettag | Seats (Total: 14) |
| | M 10:00am - 12:45pm | KNI 1109 |

**JOUR458J** **Special Topics in Journalism; Covering Social Justice**

*Issues of special concerns and current interest.*

Cross-listed with AASP499L. Credit only granted for: JOUR458J or AASP499L. The objective of this class is to expose students to the best journalistic practices in covering race and social justice issues. Students will explore how social justice is covered in the media through readings, discussions, guest lectures and research assignments to help students understand the history and background of social justice and how reporters cover these issues. Students will develop critical analytical skills through their research and will write a reported essay about a national or international social justice issue impacting society.

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|---|---|---|
| 0101 | Deneen Brown | Seats (Total: 18) |
| | M 3:00pm - 5:45pm | KNI 3202 |

**JOUR458V** **Special Topics in Journalism; The Power of the Writing Voice: Covering Celebrities, Art Exhibits, Concerts and Theatre**

*Issues of special concerns and current interest.*

In this course, students will be introduced to writing journalism profiles of celebrities, covering music concerts, art exhibitions and theatrical productions for "Style" sections of newspapers and magazines.

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| 0101 | Deneen Brown | Seats (Total: 18) |
| | W 3:00pm - 5:45pm | KNI 3202 |

**JOUR459F** **Special Topics in Journalism; Media in War and Crisis**

*Issues of special concern and current interest. Open to all students.*

**Contact department for information to register for this course.**

**JOUR459J** **Special Topics in Journalism; The Media Role in Investigating Foreign and Domestic Extremists**

*Issues of special concern and current interest. Open to all students.*

The media has played a critical role in informing the public about significant threats from foreign terrorists and domestic extremists. Butthey were also highly reliant on government sources and susceptible to government hype and spin after the attacks of Sept. 11, 2001, and then mostly missed the growth of domestic extremists' groups that emerged on Jan. 6, 2020. In this course we will read significant examples of news and investigative reporting during this 20-year period,analyze its impact and relevance on the public policy and debate and examine the latest open-source methods for uncovering extremists' networks at home and abroad.

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|---|---|---|
| 0101 | Dana Priest<br>M 2:30pm - 5:15pm | Seats (Total: 18)<br>KNI 3200 |

**JOUR459K** **Special Topics in Journalism; Global Media and International Journalism in the 21st Century**

*Issues of special concern and current interest. Open to all students.*

**Contact department for information to register for this course.**

**JOUR459L** **Special Topics in Journalism; European Mass Media**

*Issues of special concern and current interest. Open to all students.*

**Contact department for information to register for this course.**

**JOUR459V** **Special Topics in Journalism; Media and International Affairs**

*Issues of special concern and current interest. Open to all students.*

**Contact department for information to register for this course.**

**JOUR471** **Follow the Money: Reporting on Business**

(Perm req)

*Prerequisite: Must have completed a university statistics course. Restriction: By permission of the College of Journalism. Credit only granted for: JOUR479C or JOUR471. Formerly: JOUR479C.*

*Business and economics reporting is one of the strongest sectors of journalism with lucrative employment opportunities. This class, designed for journalism and non-journalism majors, introduces students to the main economic and business themes that dominate news coverage. Topics will include: corporate money and power in Washington, the ups and downs of the stock market, rising income inequality, the immigration crisis, why we have a trade war with China and technology disruptors. This class will be helpful to students who want to enhance their career opportunities by understanding how the economy works, why globalization is important and how the biggest corporations--including technology companies--have such a big influence on the way we live.*

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|---|---|---|
| 0101 | Constance Ford<br>MW 3:00pm - 4:15pm | Seats (Total: 15)<br>KNI 2107 |

**JOUR472** **Data Journalism**

(Perm req)

*Prerequisite: JOUR320 or JOUR360. Jointly offered with: JOUR772. Credit only granted for: JOUR472 or JOUR772.*

*A practical, skills-based course in the basics of modern data journalism, data literacy and data storytelling. Students will learn to use data visualization, data analysis and other data-driven reporting techniques.*

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|---|---|---|---|
| 0101 | Ryan Little<br>M 5:00pm - 6:50pm<br>W 5:00pm - 6:50pm | Seats (Total: 15)<br>ONLINE<br>KNI 2103 | |
| 0201 | Derek Willis<br>M 2:00pm - 3:50pm<br>W 2:00pm - 3:50pm | Seats (Total: 8)<br>KNI 2105<br>KNI 2105 | <br><br>Lab |
| 0301 | Derek Willis<br>Class time/details on ELMs | Seats (Total: 1)<br>ONLINE | |

**JOUR473 Computational Journalism**

(Perm req)

*Prerequisite: Permission of the Philip Merrill College of Journalism. Cross-listed with: INST403. Jointly offered with: JOUR773. Credit only granted for: JOUR479V, JOUR473, INST408I or INST403. Formerly: JOUR479V and INST408I.*

*Designed to teach the application of computational methods in journalism and reporting. The methods include natural language processing, visualization, and web data mining. The course will also cover the necessity and impact of journalistic ethics in designing computation solutions.*

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|---|---|---|
| 0101 | Naeemul Hassan<br>M 9:30am - 12:15pm | Seats (Total: 6)<br>KNI 1101 |

**JOUR475 Understanding Audiences and Analytics**

(Perm req)

*Prerequisite: Student must have completed a university statistics course. Credit only granted for: JOUR479O or JOUR475. Formerly: JOUR479O.*

*As journalism evolves, it may be more important than ever to understand what were once simply called "audiences" -- who they are, how they consume news, and what that engagement means for them and for society. Students will learn to think critically about news audiences and contemporary issues in audience research.*

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|---|---|---|
| 0101 | Ronald Yaros<br>Tu 12:30pm - 1:45pm<br>Th 12:30pm - 1:45pm | Seats (Total: 15)<br>ONLINE<br>KNI 2105 |

**JOUR479D** **Special Topics in Data Gathering and Analysis; Using Investigative Tools in Reporting**

(Perm req)

*Special research topics for reporting and writing.*

Prerequisite: A university statistics course. Introduces students to the journalists and techniques behind award-winning investigations. In-class meetings will dissect these stories, often with the reporters who did them. Reporters will share the methods behind their success and you'll experiment with them. Students will work on developing their reporting skills using online tools, human sources, records, data and observation. Students will learn techniques that apply to all forms of journalism and all beats, whether broadcast or multi-platform, public affairs or sports.

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|---|---|---|
| 0101 | Deborah Nelson<br>M 12:30pm - 1:20pm<br>Class time/details on ELMs | Seats (Total: 15)<br>KNI 3200<br>ONLINE |

**JOUR479L** **Special Topics in Data Gathering and Analysis; The Art of Interviewing**

(Perm req)

*Special research topics for reporting and writing.*

Prerequisite: JOUR320. Restriction: Students are not eligible to take this course if they have completed JOUR328X/JOUR628X. This course will substantially deepen your skills at the most elemental act in journalism knowing how to ask questions that elicit more honest and illuminating answers. You'll learn by doing, watching, and listening,looking at some of the best interviews ever,and some of the not so best, and analyze the differences. Students will conduct various interviews of their own, watch and critique themselves and their fellow students, and hear from some of the most skilled interviewers in the field today.

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|---|---|---|
| 0101 | Thomas Rosenstiel<br>M 12:00pm - 2:45pm | Seats (Total: 16)<br>KNI 3202 |

**JOUR479X** **Special Topics in Data Gathering and Analysis; Sports Data Analysis and Visualization**

(Perm req)

*Special research topics for reporting and writing.*

Prerequisite: JOUR472/JOUR772 or permission of instructor. This course will provide students with replicable methods for analyzing sports data and creating visualizations that help find and illustrate patterns in order to find and tell stories. Using real-world sports data, students will learn to write code to ask and answer questions of it and to describe its meaning.

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|---|---|---|
| 0101 | Derek Willis<br>TuTh 12:00pm - 1:50pm | Seats (Total: 15)<br>KNI 2103 |

**JOUR601** **Theories of Journalism and Public Communication**

(Perm req)

*Prerequisite: Permission of JOUR-Philip Merrill College of Journalism.*

*Survey and evaluation of current communication theories. Attention is given to the nature and function of scientific theory, models of communication behavior, the nature of information, social functions of journalism and public communication, attitude change and persuasive communication and theories of language and meaning.*

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|---|---|---|
| 0101 | Linda Steiner<br>W 1:00pm - 3:45pm | Seats (Total: 9)<br>KNI 2109 |

**JOUR603** **News Videography**

(Perm req)

*Prerequisite: JOUR501 or JOUR502; or permission of JOUR-Philip Merrill College of Journalism. Restriction: Permission of JOUR-Philip Merrill College of Journalism. Jointly offered with: JOUR347. Credit only granted for: JOUR503 or JOUR603. Formerly: JOUR503.*

*Introduction to shooting, editing and production of video stories for broadcast and the Web; includes newsgathering in the field.*

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|---|---|---|
| 0101 | Alanna Kopania<br>MW 4:00pm - 5:50pm | Seats (Total: 12)<br>TWS 0222A |

**JOUR604** **Introduction to Multimedia Skills for Graduate Certificate Programs**

(Perm req)

*Restriction: Permission of JOUR-Philip Merrill College of Journalism; and must not have completed JOUR504. Credit only granted for: JOUR 604, JOUR504, or JOUR628G. Formerly: JOUR628G. Additional information: This course is for students enrolled in graduate certificate programs in the College of Journalism.*

*Examine the basics of producing and editing digital photos, video and audio for news. Topics include framing, lighting and other aspects of composition; sequencing, using wide, medium and tight shots; and ethical considerations when collecting sound and visuals.*

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|---|---|---|
| PCJ1 | Nicole Munchel<br>Sa 8:30am - 12:15pm<br>Class time/details on ELMs | Seats (Total: 14)<br>KNI 1101<br>ONLINE |
| | *Must be in the Multimedia Journalism (GC) program. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**JOUR620** **Public Affairs Reporting**

(Perm req)

*Prerequisite: JOUR501 or JOUR502; or permission of JOUR-Philip Merrill College of Journalism.*

*Designed to add to and sharpen the skills learned in JOUR501 or JOUR502. It is primarily an introduction to "beat" reporting that allows students to sample the most common new beats while reporting and writing on deadline. Students are required to develop and hone their multimedia skills by reporting in a variety of media.*

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|---|---|---|
| 0101 | Christine Harvey<br>TuTh 10:00am - 11:50am | Seats (Total: 18)<br>KNI 2103 |
| 0201 | Joshua Davidsburg<br>TuTh 10:00am - 11:50am | Seats (Total: 12)<br>TWS 0222B |

**JOUR625** **Advanced Capital News Service Bureau**

(Perm req)

*Prerequisite: JOUR620; and permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR625 or JOUR729. Formerly: JOUR729.*

*Advanced journalism training. Students report as part of College's Capital News Service program.*

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|---|---|---|
| 0101 | James Carroll<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0201 | Christi Parsons<br>Contact instructor or department for details. | Seats (Total: 10) |

**JOUR628C** **Specialized Topics in News Writing and Reporting; Advanced Howard Center Investigations I**

(Perm req)

*Advanced training and practice in writing and reporting news. Repeatable to a maximum of six credits provided the content differs.*

Advanced journalism training. Students work on investigative projects as part of the College's Howard Center for Investigative Journalism.

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|---|---|---|
| 0101 | Kathy Best | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**JOUR628G** **Specialized Topics in News Writing and Reporting; Sports Enterprise Reporting**

(Perm req)

*Advanced training and practice in writing and reporting news. Repeatable to a maximum of six credits provided the content differs.*

Prerequisite: JOUR620. Students will work as a team on a sports enterprise project. Previous topics have included gender equity in sports, youth sports & the media, betting and college sports, the economic impact of a new stadium on a city, and the future of football.

| | | |
|---|---|---|
| 0101 | Mark Hyman | Seats (Total: 2) |
| | M 1:00pm - 3:45pm | KNI 1101 |

**JOUR628I** **Specialized Topics in News Writing and Reporting; Advanced Howard Center Investigations II**

(Perm req)

*Advanced training and practice in writing and reporting news. Repeatable to a maximum of six credits provided the content differs.*

Advanced journalism training. Students work on in-depth investigative projects as part of the College's Howard Center for Investigative Journalism.

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|---|---|---|
| 0101 | Kathy Best | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**JOUR628N** **Specialized Topics in News Writing and Reporting; Reporting on Journalists Imprisoned Overseas**

(Perm req)

*Advanced training and practice in writing and reporting news. Repeatable to a maximum of six credits provided the content differs.*

Prerequisite: JOUR620 Students will dip into national security and diplomatic reporting by learning to research the context, laws and international pressure surrounding an individual journalist imprisoned in a particular country. Students will learn how to find sources and conduct interviews with diplomats, experts, reporters and family members living overseas while never leaving College Park.

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|---|---|---|
| 0101 | Dana Priest | Seats (Total: 3) |
| | M 9:30am - 12:15pm | KNI 3200 |

**JOUR634** **Audio and Podcast Reporting**

(Perm req)

*Prerequisite: JOUR660; or permission of Philip Merrill School of Journalism Associate Dean. Jointly offered with: JOUR334. Formerly: JOUR668L.*

*Students will learn the tools needed to report and produce short- and long-form audio storytelling, including writing, reporting, interviewing, production, editing, hosting and delivery. Field reporting and audio gathering outside of class are required, along with writing and mixing broadcast-quality audio stories. The class will produce a complete newscast on deadline, with live and pre-recorded elements. Various interests in audio reporting are welcome and encouraged.*

| | | |
|---|---|---|
| 0101 | Steven Drummond<br>Tu 5:30pm - 8:15pm | Seats (Total: 3)<br>KNI 1101 |

**JOUR636** **Studio Production**

(Perm req)

*Prerequisite: JOUR603. Credit only granted for: JOUR636, JOUR336, JOUR668L or JOUR368L. Formerly: JOUR668L.*

*Moves through every production aspect related to studio production. This includes learning how to plan and execute a live studio production featuring camera crews, a floor director, producer, director, technical director, audio and teleprompter. Labs focus on executing a live newscast production. Students will also be able to go on live shots with reporters to run camera/lighting.*

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|---|---|---|
| 0101 | Nathaniel Stevens<br>TuTh 4:00pm - 6:00pm | Seats (Total: 2)<br>TWS 0116 |

**JOUR652** **Interactive Design and Development**

(Perm req)

*Prerequisite: Master of Journalism students must have taken or be concurrently enrolled in JOUR620; or must have permission of the Philip Merrill College of Journalism. Recommended: Multimedia Journalism certificate students are encouraged to take or be concurrently enrolled in JOUR604. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR652 or JOUR352.*

*Conceptualize, wireframe, design and build responsive Web pages using HTML, style sheets and other coding tools; work with open source interactive tools and JavaScript libraries to create charts, timelines and maps to tell stories.*

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|---|---|---|
| 0101 | Adam Marton<br>M 11:00am - 12:50pm<br>W 11:00am - 12:50pm | Seats (Total: 6)<br>KNI 2107<br>ONLINE |
| 0201 | Stacey Decker<br>W 11:30am - 2:15pm | Seats (Total: 2)<br>KNI 1101 |

| | | |
|---|---|---|
| PWJ1 | Hyon-Young Kim<br>Sa 1:30pm - 5:15pm | Seats (Total: 15)<br>ONLINE |
| | *Must be in the Multimedia Journalism (GC) program. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**JOUR655** **Advanced Online News Bureau**

(Perm req)

*Prerequisite: JOUR603 or JOUR620; and JOUR652; or permission of JOUR-Philip Merrill College of Journalism.*

*Advanced online journalism training. Students work as online reporters, editors and producers for a news site. Students also package copy from the print and broadcast news bureaus.*

Prerequisites: JOUR 620 and 652 or equivalent. Contact the instructor to obtain permission. Course shares space with JOUR355.

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|---|---|---|
| 0101 | Adam Marton<br>Contact instructor or department for details. | Seats (Total: 7) |
| 0201 | Stacey Decker<br>Contact instructor or department for details. | Seats (Total: 4) |

**JOUR660** **Broadcast News Writing**

(Perm req)

*Prerequisite: JOUR501 or JOUR502; or permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR660 or JOUR760. Formerly: JOUR760.*

*Descriptive and critical analysis of broadcast news; methods of evaluation of news judgments; decision-making and organizational aspects of the broadcast news industry.*

| | | |
|---|---|---|
| 0101 | Alison Burns<br>MW 10:00am - 11:50am | Seats (Total: 6)<br>KNI 2105 |

**JOUR661** **Television Reporting and Production**

(Perm req)

*Prerequisite: JOUR603 and JOUR660. Restriction: Must not be in Journalism Studies (Doctoral) program.*

*Reporting, writing, editing and production of broadcast news.*

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|---|---|---|
| 0301 | Joshua Davidsburg<br>TuTh 12:00pm - 1:50pm | Seats (Total: 1)<br>TWS 0222B |

**JOUR662** **Broadcast News Producing**

(Perm req)

*Prerequisite: Must have completed JOUR603 and JOUR660. Jointly offered with: JOUR362. Credit only granted for: JOUR362 or JOUR662.*

*Learn and practice the basics of broadcast newscast producing. Design, write, edit and implement a news program.*

| | | | |
|---|---|---|---|
| 0102 | Cindy Wright | Seats (Total: 1) | |
| | Tu 6:30pm - 8:00pm | TWS 0117 | |
| | Tu 2:00pm - 6:20pm | TWS 0117 | Lab |
| 0104 | Cindy Wright | Seats (Total: 1) | |
| | Tu 6:30pm - 8:00pm | TWS 0117 | |
| | Th 2:00pm - 6:20pm | TWS 0117 | Lab |

**JOUR664** **Advanced Audio and Podcast Reporting**

(Perm req)

*Prerequisite: JOUR634; or permission of JOUR-Philip Merrill College of Journalism. Restriction: Permission of JOUR-Philip Merrill College of Journalism. Jointly offered with: JOUR364.*

*Students receive professional skills training in the reporting, writing, editing, voicing and production of radio news. Students will be required to do extensive field reporting, along with writing and mixing broadcast-quality radio pieces. They will also participate in other aspects of radio news production, including editing, directing, live interviewing and hosting. By the end of the semester, students will have created all the elements of a complete radio broadcast, including news spots, finished pieces, two-ways and a long-form audio segment. The class will also delve into the history and evolution of radio news and its future in podcasting and other forms.*

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|---|---|---|
| 0101 | Robert Little | Seats (Total: 8) |
| | W 5:30pm - 8:15pm | KNI 3210 |

**JOUR667** **Broadcast News Bureau**

(Perm req)

*Prerequisite: JOUR661. Jointly offered with: JOUR367, JOUR357.*

*Advanced broadcast journalism training. Students report as part of the College's Capital News Service program.*

Jointly offered with JOUR367.

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|---|---|---|
| 0101 | Melvin Coffee | Seats (Total: 15) |
| | Contact instructor or department for details. | |

**JOUR668N** **Topics in Broadcasting and Electronic Media; Advanced Photojournalism**

(Perm req)

*Advance research and analysis of selected topics in broadcast journalism.*

Prerequisite: JOUR670. This course will provide a deeper dive into the storytelling medium of photojournalism. Students will learn the skills necessary to tell in-depth, long-term stories through the use of still photography. Topics of discussion will include the history of photojournalism, changing approaches to the photo story/photo essay over time, how to approach a variety of potential subject matter and situations, finding long-term photo story projects and organizing images for a variety of digital and traditional formats.

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|---|---|---|
| 0101 | Timothy Jacobsen<br>F 9:00am - 11:45am | Seats (Total: 6)<br>KNI 2107 |

**JOUR668O** **Topics in Broadcasting and Electronic Media; Advanced Studio Production**

(Perm req)

*Advance research and analysis of selected topics in broadcast journalism.*

Prerequisite: JOUR636 or permission of instructor. This course will take you through every production aspect related to studio production and work as production support for live sports or video game news shows. This includes learning how to plan and execute a live studio production featuring camera crews, a floor director, producer, director, technical director, audio, and teleprompter. It will also include post-production promo pieces for live shows, as well as social media components that are production-related.

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|---|---|---|
| 0101 | Nathaniel Stevens<br>W 4:00pm - 6:45pm | Seats (Total: 1)<br>TWS 0116 |

**JOUR668T** **Topics in Broadcasting and Electronic Media; Documentary Video Production and Cinematography**

(Perm req)

*Advance research and analysis of selected topics in broadcast journalism.*

Prerequisite: JOUR501 or JOUR502. Introduction to shooting, editing and production of video for film and web; includes visual storytelling, story research, lighting, interviewing, editing, managing video and film projects.

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|---|---|---|
| 0101 | Alanna Kopania<br>MW 11:00am - 12:50pm | Seats (Total: 5)<br>TWS 0222A |

**JOUR668X** **Topics in Broadcasting and Electronic Media; Documentary Filmmaking**

(Perm req)

*Advance research and analysis of selected topics in broadcast journalism.*

Prerequisite: JOUR603 and JOUR620/JOUR660. Hands-on independent documentary production. From pre-production to distribution, the class will include field production, pitching, grant writing and more.

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|---|---|---|
| 0101 | Joshua Davidsburg<br>TuTh 2:00pm - 3:50pm | Seats (Total: 4)<br>TWS 0222B |

**JOUR668Y** **Topics in Broadcasting and Electronic Media; Sports Producing**

(Perm req)

*Advance research and analysis of selected topics in broadcast journalism.*

Prerequisite: JOUR603 and JOUR660. This class will take an analytical look at sports TV and sports content by deconstructing shows. We will examine the producer's role in creating the look, feel and direction of shows and learn how to choose a lead story, how to "tease" effectively and the importance of identifying and telling good stories. We will watch live televised sporting events to better understand the techniques used by directors and producers. Students will get hands-on experience with BTN2GO and learn all aspects of live game production.

| | | |
|---|---|---|
| 0101 | Joseph Yasharoff<br>W 7:00pm - 9:45pm | Seats (Total: 2)<br>KNI 2103 |

**JOUR668Z** **Topics in Broadcasting and Electronic Media; Visual Theories: Examining Representation in Documentary, Film and Digital Media**

(Perm req)

*Advance research and analysis of selected topics in broadcast journalism.*

Restriction: Permission of instructor (kvasu@umd.edu) In this course, we'll examine the historic representation of people, places and cultures in documentary film, television and more recently through social media. Each week we'll explore seminal and cutting edge visual theories that will guide our weekly in-class discussions and assignments. The course, designed for both filmmakers and scholars, culminates with a final project through which students operationalize their understanding of visual theories by creating a research paper, video essay or podcast.

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|---|---|---|
| 0101 | Krishnan Vasudevan<br>W 1:00pm - 3:45pm | Seats (Total: 10)<br>KNI 1109 |

**JOUR670** **Photojournalism**

(Perm req)

*Prerequisite: JOUR620. Restriction: Must be in a major in JOUR-Philip Merrill College of Journalism; and permission of JOUR-Philip Merrill College of Journalism. Jointly offered with: JOUR370. Credit only granted for: JOUR368P, JOUR370 or JOUR670. Additional information: Students are required to borrow, rent or purchase a 35mm digital camera. Contact department for camera specifications.*

*Examining the basics of shooting, editing and storytelling with still photos taken with 35mm digital cameras. Students shoot portraits, feature photos and action shots. Final project is a photo story/essay.*

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|---|---|---|
| 0101 | Timothy Jacobsen<br>F 12:00pm - 2:45pm | Seats (Total: 1)<br>KNI 2107 |

**JOUR682** **Sports Reporting and Writing**

(Perm req)

*Prerequisite: JOUR620. Jointly offered with: JOUR382. Credit only granted for: JOUR628B, JOUR682 or JOUR382. Formerly: JOUR628B.*

*Gives students wide-ranging instruction in all aspects of sports reporting and writing, from the history of the craft to its mechanics, including how to report, write, edit and lay out sports stories, incorporating multimedia and interactive elements. Ethics, objectivity, fairness and the future of sports journalism will be discussed.*

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|---|---|---|
| 0101 | Kaitlyn Wilson<br>MW 4:00pm - 5:15pm | Seats (Total: 5)<br>KNI 2105 |

**JOUR689D** **News Coverage of Specialized Topics; Social Video Journalism**

(Perm req)

*Advance training and practice in writing and reporting news in on specialized field of interest.*

Prerequisite: JOUR620/JOUR660 Creating strategic short-form video journalism for social media that is equally engaging, informative and creative. Skills will cover pre-production (story pitches, scripting, research), field production (standups, interviews, b-roll) and post-production (editing, graphics, audio).

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|---|---|---|
| 0101 | Jackie Padilla<br>MTh 5:20pm - 7:10pm | Seats (Total: 3)<br>KNI 2107 |

**JOUR689E** **News Coverage of Specialized Topics; Entertainment, Arts and Culture Reporting**

(Perm req)

*Advance training and practice in writing and reporting news in on specialized field of interest.*

Prerequisite: JOUR620. Entertainment reporting is much more than just gossip. This course will cover the ins and outs of celebrity interviews, red carpets, theater reviews, diversity in media, freelancing, pitching and narrative writing. Expect to leap out of your comfort zones and take advantage of the DMV arts scene, not to mention hone your national entertainment coverage skills.

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|---|---|---|
| 0101 | David Oliver<br>M 6:00pm - 8:45pm | Seats (Total: 1)<br>KNI 2103 |

**JOUR689I** **News Coverage of Specialized Topics; Investigative Reporting**

(Perm req)

*Advance training and practice in writing and reporting news in on specialized field of interest.*

Prerequisite: JOUR620. Introduces students to the skills and techniques of investigative reporting. Students will learn how to report, write and publish investigative stories.

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|---|---|---|
| 0101 | James Risen | Seats (Total: 3) |
| | M 2:00pm - 4:45pm | KNI 2103 |

**JOUR689P** **News Coverage of Specialized Topics; Beyond the Briefing Room: Covering the White House and National Politics in a Divided America**

(Perm req)

*Advance training and practice in writing and reporting news in on specialized field of interest.*

Prerequisite: JOUR620. This is a course about the practice of political journalism at the highest level. We will explore political bias and objectivity, the debate over the public's right to know, national security and classification, and manipulation by White House officials. Students willfollow the 2024 election from the perspective of a correspondent on the trail. And we will work on critical skills: writing on deadline, developing sources, crafting questions for live briefings, building expertise quickly, using new technologies, and framing enterprise stories.

| | | |
|---|---|---|
| 0101 | Michael Shear | Seats (Total: 3) |
| | TuTh 9:00am - 10:50am | KNI 1101 |

**JOUR689R** **News Coverage of Specialized Topics; Computational Text Analysis**

(Perm req)

*Advance training and practice in writing and reporting news in on specialized field of interest.*

Restriction: Permission of instructor (robwells@umd.edu). This course introduces students to key skills and concepts in the digital humanities and how they can be applied to content analysis. Students will learn how to gather textual data, process it and conduct computational textual analysis, sentiment analysis, narrative analysis, machine learning and topic modeling using the R programming language. Then, you will process your findings into various data visualization programs.

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|---|---|---|
| 0101 | Rob Wells | Seats (Total: 12) |
| | Tu 9:00am - 11:45am | KNI 2107 |

**JOUR689X** **News Coverage of Specialized Topics; Investigative Reporting with Artificial Intelligence and Open Source Intelligence (OSINT) Data**

(Perm req)

*Advance training and practice in writing and reporting news in on specialized field of interest.*

Prerequisite: Permission of instructor (smussend@umd.edu). Some prior exposure to at least one programming or scripting language, like Python,R or JavaScript, is recommended. If you lack that, completing a few introductory, online programming tutorials assigned by the instructor before the semester starts is strongly recommended. A project-based skills course that teaches students to use cutting-edge investigative techniques that employ artificial intelligence, machine learning, generative language models or computational analysis of open source intelligence data sources, like near-real-time satellite imagery,global flight and shipping data, repositories of millions of leaked digital documents and massive collections of video files. Students will learn how leading news organizations, OSINT researchers, human rights groups and academic researchers are pioneering advanced methods to tell important stories about, for example, secret Chinese prison camps, networks of global shell companies shielding the ultra-wealthy from taxes, uncapped oil wells leaking climate-heating methane into the atmosphere, etc.

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|---|---|---|
| 0101 | Sean Mussenden | Seats (Total: 6) |
| | M 1:30pm - 4:15pm | KNI 3210 |

**JOUR698** **Special Problems in Communication**

(Perm req)

*Independent study in area of the student's interest.*

**Contact department for information to register for this course.**

**JOUR698R** **Special Problems in Communication; Research Proposal Preparation**

(Perm req)

*Independent study in area of the student's interest.*

This class provides assistance for Merrill College doctoral students in preparing their research proposals.

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|---|---|---|
| 0101 | Sarah Oates | Seats (Total: 5) |
| | Class time/details on ELMs | ONLINE |

**JOUR702** **Journalism Law and Ethics**

(Perm req)

*Restriction: Must be in one of the following programs (Journalism - Master (Master's); Journalism Studies (Doctoral)) ; or permission of JOUR-Philip Merrill College of Journalism. Credit only granted for: JOUR400, JOUR 600, JOUR700, or JOUR 702.*

*An examination of the legal rights and ethical problems and constraints of mass media, including libel, privacy, copyright, monopoly and contempt.*

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|---|---|---|
| 0101 | Danielle McLean | Seats (Total: 36) |
| | TuTh 2:00pm - 3:15pm | KNI 3202 |
| | *The course will meet asynchronously on Thursdays but not at a specified time.* | |

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|---|---|---|---|
| 0201 | Danielle McLean<br>TuTh 2:00pm - 3:15pm | Seats (Total: 2)<br>ONLINE | |

**JOUR772** **Data Journalism**

(Perm req)

*Prerequisite: Must have completed JOUR502, or students who have taken courses with comparable content may contact the department. Jointly offered with: JOUR472. Credit only granted for: JOUR772 or JOUR472.*

*A practical, skills-based course in the basics of modern data journalism, data literacy and data storytelling. Students will learn to use data visualization, data analysis and other data-driven reporting techniques.*

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| 0101 | Derek Willis<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE | |
| 0201 | Derek Willis<br>M 2:00pm - 3:50pm<br>W 2:00pm - 3:50pm | Seats (Total: 8)<br>KNI 2105<br>KNI 2105 | <br><br>Lab |
| 0301 | Daniel Paiva Da Silva<br>TuTh 12:00pm - 1:50pm | Seats (Total: 15)<br>KNI 2107 | |

**JOUR773** **Computational Journalism**

(Perm req)

*Prerequisite: Permission of the Philip Merrill College of Journalism. Cross-listed with: INST617. Jointly offered with: JOUR473. Credit only granted for: JOUR779V, JOUR773, JOUR473, JOUR479V, INST617, INST408I, or INST403. Formerly: JOUR779V.*

*Designed to teach the application of computational methods in journalism and reporting. The methods include natural language processing, visualization, and web data mining. The course will also cover the necessity and impact of journalistic ethics in designing computation solutions.*

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|---|---|---|---|
| 0101 | Naeemul Hassan<br>M 9:30am - 12:15pm | Seats (Total: 12)<br>KNI 1101 | |
| 0201 | Naeemul Hassan<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE | |

**JOUR798** **Master's Professional Fieldwork**

(Perm req)

*Research for and preparation of news articles or programs for use in the media. Analysis of fieldwork experience using communication theory and research results. Fieldwork may be done independently or as an internship. Repeatable to a maximum of six credits.*

**Contact department for information to register for this course.**

**JOUR799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**JOUR800** **Introduction to Doctoral Study in Journalism and Public Communication**

(Perm req)

*Credit only granted for: JOUR700 or JOUR800. Formerly: JOUR700.*

*Basic skills in journalism and public communication research.*

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| 0101 | Krishnan Vasudevan<br>W 9:00am - 11:45am | Seats (Total: 10)<br>KNI 2109 |

**JOUR888** **Doctoral Professional Field Work**

*Critical analysis of a phase of a professional field in journalism and public communication. Analysis of professional activity through personal observation. Evaluation of the purpose, process, effectiveness, and efficiency of professional activity. Recommendations for training and further research.*

**Contact department for information to register for this course.**

**JOUR889** **Doctoral Tutorial in Journalism and Public Communication**

*Individual research in journalism and public communication.*

**Contact department for information to register for this course.**

**JOUR898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**JOUR899** **Doctoral Dissertation Research in Journalism and Mass Communication**

(Perm req)

**Contact department for information to register for this course.**

# JWST Jewish Studies Fall 2024

**JWST141** **American Jewish Experience**

*Cross-listed with: HIST106. Credit only granted for: HIST106 or JWST141.*

*History of the Jews in America from Colonial times to the present. Emphasis on the waves of migration from Germany and Eastern Europe; the changing nature of the American Jewish community and its participation in American social, economic, and political life.*

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| 0101 | Marsha Rozenblit<br>TuTh 2:00pm - 3:15pm | Seats (Total: 40)<br>KEY 0126 |

**JWST171** **Is Judaism a Religion?**

*Cross-listed with: RELS171. Credit only granted for: JWST171 or RELS171.*

*Jewish identity can be framed in terms of ethnicity, culture, and religious practice, but also in terms of more contemporary social constructions including social action, political engagement, and intellectual pursuit. In the context of such diverse social and individual frames, what does it mean to identify Judaism as a religion? Attention to Jewish society in historical and global perspective will provide a backdrop for a particular focus on contemporary Jews in the United States and Israel.*

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| 0101 | Maxine Grossman<br>MW 2:00pm - 3:15pm | Seats (Total: 40)<br>KEB 1200 |

**JWST219C** **Special Topics in Jewish Studies; Contemporary Israel: History and Society**
**Contact department for information to register for this course.**

**JWST219D** **Special Topics in Jewish Studies; Women in Israel**
**Contact department for information to register for this course.**

**JWST219E** **Special Topics in Jewish Studies; Writing Israel**
**Contact department for information to register for this course.**

**JWST225** **Religions of the Ancient Near East**

*Cross-listed with: RELS225, HIST219I. Credit only granted for: JWST225, HIST219I, RELS225, or RELS219A. Formerly: RELS219A.*

*Introduction to ancient Near Eastern religious systems and mythology, from the third millennium BCE through the fourth century BCE. Particular emphasis on Mesopotamia and ancient Israel.*

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| 0101 | Matthew Suriano<br>MW 3:30pm - 4:45pm | Seats (Total: 25)<br>HBK 0125 |

**JWST262** **Introduction to the Hebrew Bible/Old Testament**

*Cross-listed with: ENGL262, HEBR298B. Credit only granted for: JWST262, HEBR298B, or ENGL262.*

*Origins of the Hebrew Bible (Old Testament), with attention to literary formations, archaeology, and social-political settings. Explorations of major questions, including who wrote the Bible, and when; relationships of the biblical tradition to the mythology and religious structures of ancient Israel's near eastern neighbors; and dynamics of politics, religious leadership, and law.*

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| 0101 | Stephanie Cooper<br>M 2:00pm - 3:15pm<br>W 2:00pm - 3:15pm | Seats (Total: 25)<br>ANS 0402<br>ONLINE |

**JWST272** **Diversify and Multiply: Jewish Culture and the Production of an Identity**

*Cross-listed with: CMLT242. Credit only granted for: JWST272, CMLT242, or ISRL249G.*

*Provides students with a unique exploration of cultural products produced by a diverse array of Jewish creators of literature, comedy and film. The texts, films, and performing arts touch on the central social, economic, and cultural issues of Jews during the ages, and up to the 21st century. This course will explore Jewish creativity throughout history, as well as the Jewish encounter with modernity as a whole. We will be diving into prominent creators such as Tiffany Haddish, Larry David, Sholem Aleichem, Adam Sandler, S. Y. Abramovitsch, Judd Apatow, Philip Roth, Amy Schumer, I. B. Singer, Ben Stiller, Franz Kafka, Dan Levy, and others. Examining their creations will open a window to the diverse methods of construction of modern Jewish identities.*

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|---|---|---|---|
| 0101 | Adi Mahalel<br>TuTh 3:30pm - 4:45pm | Seats (Total: 30)<br>ASY 3203 | |

**JWST274** **Jerusalem in Antiquity: The History of Sacred Space in a Holy City**

*Cross-listed with: RELS274. Credit only granted for: JWST274, RELS274, JWST289J or RELS289J. Formerly: JWST289J, RELS289J.*

*Examines the complex history of Jerusalem's status as a holy city, with a focus on constructions of sacred space in Judaism, Christianity, and Islam.*

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|---|---|---|---|
| 0101 | Matthew Suriano<br>MW 11:00am - 11:50am<br>W 1:00pm - 1:50pm | Seats (Total: 20)<br>CHE 2110<br>JMP 2202 | <br><br>Discussion |
| 0102 | Matthew Suriano<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 20)<br>CHE 2110<br>EGR 2154 | <br><br>Discussion |
| 0103 | Matthew Suriano<br>MW 11:00am - 11:50am<br>F 12:00pm - 12:50pm | Seats (Total: 20)<br>CHE 2110<br>EGR 2154 | <br><br>Discussion |
| 0104 | Matthew Suriano<br>MW 11:00am - 11:50am<br>W 2:00pm - 2:50pm | Seats (Total: 20)<br>CHE 2110<br>JMP 2202 | <br><br>Discussion |

**JWST275** **Urban Dreams and Nightmares: The Jewish Experience of Cities**

*Cross-listed with: HIST286. Credit only granted for: HIST286 or JWST275.*

*Cities give expression to man's power while they highlight human limitations. It is urban social diversity that makes great wealth and thriving culture possible, but it also fixes discrimination behind walls constructed from paper and stone. Nations make cities symbols of the sacred and the glorious, while they ignore the poverty and social alienation that city life breeds. Jews, intensively urbanized for millennia, provide a special vantage point from which to study the beauty and the tragedy implicit in city-building. Our sources will include the Bible, poems, plays and novels but also US Supreme Court rulings and news of riots in Israel. We will survey how Jews have shaped, and been shaped by, the urban challenge over time and space.*

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| 0101 | Bernard Cooperman<br>MW 2:00pm - 3:15pm | Seats (Total: 40)<br>KEY 0103 | |

**JWST281** **Yiddish I**

*Cross-listed with: GERS141. Credit only granted for: JWST281, GERM148Y or GERS141.*

*Introduction to the Yiddish language, with emphasis on speaking, reading, and writing skills. Students will also learn the history of the language, its significance to Jewish culture, its origins and basic structure.*

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| 0101 | Adi Mahalel<br>TuTh 12:30pm - 1:45pm | Seats (Total: 20)<br>SQH 2120 | |

**JWST289E** **Civil Discourse or Urban Riot: Why Cities Don't (Often) Explode**

*Cross-listed with: HIST135. Credit only granted for: HIST135 or JWST289E.*

*An examination of the mechanisms that promote peaceful co-existence in urban societies and a discussion of how and why city streets sometimes become violent.*

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|---|---|---|---|
| 0101 | Bernard Cooperman<br>MW 12:00pm - 12:50pm<br>F 11:00am - 11:50am | Seats (Total: 23)<br>ESJ 0215<br>ASY 3207 | Discussion |
| 0102 | Bernard Cooperman<br>MW 12:00pm - 12:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 23)<br>ESJ 0215<br>ASY 3207 | Discussion |
| 0103 | Bernard Cooperman<br>MW 12:00pm - 12:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 23)<br>ESJ 0215<br>ASY 3203 | Discussion |

**JWST319B** **Special Topics in Jewish Studies; Arab-Israeli Relations**

*Topics in Jewish Studies.*

**Contact department for information to register for this course.**

**JWST319E** **Special Topics in Jewish Studies; Literature of the Shoah**

*Topics in Jewish Studies.*

**Contact department for information to register for this course.**

**JWST319X** **Special Topics in Jewish Studies; History of Antisemitism**

*Topics in Jewish Studies.*

Cross-listed with HIST329R. Credit only granted for HIST329R or JWST319X. Hatred of the Jews has a long history, stretching from antiquity to the present. Based on many causes -- religious animosity, economic challenges, racial fears, political anxieties -- antisemitism may have waxed and waned over the past two thousand years, but it has proven a remarkably resilient and often deadly concept. This course will examine the main claims of the antisemites from antiquity to the present, the causes for the emergence of antisemitic invective and behavior in different periods and places, and the ways Jews devised to cope with the threat that anti-Jewish hostility posed. We will focus on primary sources as well as scholarly analyses. Hopefully we will come to understand how different societies coped with an unusual religo-ethnic minority group and how that minority group understood its place in those societies.

| | | |
|---|---|---|
| 0101 | Marsha Rozenblit | Seats (Total: 30) |
| | TuTh 11:00am - 12:15pm | TLF 1103 |

**JWST319Y** **Archaeological Methods and Practice**

*Prerequisite: ANTH240, ARTH200, CLAS180, or CLAS190. Cross-listed with: ANTH305, ARTH305, CLAS305. Credit only granted for: ANTH305, ARTH305, CLAS305, or JWST319Y.*

*A team-taught, interdisciplinary course discussing theories, methods, and ethical issues in the practice of archaeology.*

| | | |
|---|---|---|
| 0101 | Christian Cloke | Seats (Total: 35) |
| | TuTh 2:00pm - 3:15pm | SQH 1121 |

**JWST369A** **Special Topics in Study Abroad III; The Holocaust: 20th Century Jewish Thought**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**JWST408** **Honors Seminar in Jewish Studies**

(Perm req)

*An in-depth exploration of a theme in Jewish history, literature, culture or thought. Course subject and readings will vary from year to year, but will generally cut across periods, locations, or disciplines. Students are expected to engage the course material critically and to use the seminar as an opportunity to develop an independent research agenda.*

**Contact department for information to register for this course.**

**JWST409** **Research Seminar in Jewish Studies**

(Perm req)

*A capstone course for Jewish Studies. Guides students through advanced source material and subject matter, research skills, and presentation techniques. A substantive paper based on independent research and analysis is one expected outcome.*

**Contact department for information to register for this course.**

**JWST418** **Honors Thesis Research in Jewish Studies**

(Perm req)

*Guided research on a thesis under the supervision of the Jewish Studies faculty.*

**Contact department for information to register for this course.**

**JWST459** **Readings in Medieval Hebrew**

(Perm req)

*Readings and analysis of Hebrew texts and literature from the Middle Ages. Language of instruction in English; all texts in Hebrew.*

**Contact department for information to register for this course.**

**JWST468** **Readings in the Hebrew Bible**

(Perm req)

*Readings in the Hebrew text of the Bible. Emphasis in close reading, grammar analysis, and modern interpretations of the Bible. Language of instruction English; all texts in Hebrew.*

**Contact department for information to register for this course.**

**JWST469** **Readings in Rabbinic Hebrew**

(Perm req)

*Readings in classical rabbinic texts and related corpora. Emphasis on grammar and reading skills as well as critical analysis of the material. Language of instruction: English; all texts in original language.*

Knowedge of Hebrw and/or permission of Instructor. Readings in Classical Rabbinic Texts and related corpora. Emphasis on grammar and reading skills as well as critical analysis of the material. Language of instruction: English; all texts

**Contact department for information to register for this course.**

**JWST478** **Readings in Modern Hebrew**

(Perm req)

*Variable topics in Modern Hebrew Literature.*

**Contact department for information to register for this course.**

**JWST499** **Independent Study in Jewish Studies; Independent Study in Jewish Studies**

(Perm req)

Prerequisite: permission of department.

**Contact department for information to register for this course.**

**JWST499A** **Independent Study in Jewish Studies; The Archaeology of Jerusalem**

(Perm req)

| | | |
|---|---|---|
| 0101 | Matthew Suriano | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**JWST609** **Supervised Instruction-Practicum in Jewish Studies**

(Perm req)

*Supervised instruction or supervised practicum in Jewish Studies. Intended for graduate students whose course work includes field work or classroom teaching.*

**Contact department for information to register for this course.**

**JWST619** **Directed Readings in Jewish Studies**

(Perm req)

*Independent Study in Jewish Studies. Readings and papers.*

**Contact department for information to register for this course.**

**JWST648** **Readings in Jewish History**

(Perm req)

*Focus on the central issues in Jewish history as well as the key historiographical debates on those issues.*

Prerequisite: permission of department. Repeatable to 9 credits if content differs. Focus on the central issues in Jewish history as well as the key historiographical debates on those issues.

**Contact department for information to register for this course.**

**JWST658** **Readings in Jewish Thought and Culture**

(Perm req)

*Examines key issues in the development of Jewish thought and culture.*

Prerequisite: permission of department. Repeatable to 9 credits if content differs. Examines key issues in the development of Jewish thought and culture.

**Contact department for information to register for this course.**

**JWST678** **Readings in Jewish Literature**

(Perm req)

*Examines selected themes or literatures in the development of Jewish literary traditions.*

Prerequisite: permission of department. Repeatable to 9 credits if content differs. Examines selected themes on literatures in the development of Jewish literary traditions.

**Contact department for information to register for this course.**

**JWST799** **Masters Thesis Research**

(Perm req)

*Research and Writing the Masters Thesis in Jewish Studies.*

Prerequisite: permission of department.

**Contact department for information to register for this course.**

# KNES Kinesiology Fall 2024

**KNES120A** **Fitness Walking**

*Credit only granted for: KNES120 or KNES120A. Formerly: KNES120A.*

*This is a co-ed physical activity course for beginning fitness walking.*

Students must pay a $40 instructional materials fee.

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|---|---|---|---|
| 0101 | Selma Cadar | Seats (Total: 30) | |
| | Class time/details on ELMs | ONLINE | |
| | Class time/details on ELMs | ONLINE | Lab |
| | *Restricted to students in KNES major (08351).* | | |
| 0102 | Selma Cadar | Seats (Total: 30) | |
| | Class time/details on ELMs | ONLINE | |
| | Class time/details on ELMs | ONLINE | Lab |
| | *Restricted to students in KNES major (08351).* | | |

**KNES131N** **Physical Education Activities: Coed; Jogging (Beginning)**

Restricted to KNES majors only (08351). Non-majors may join a hold file. Attendance is required of all students beginning the first day of class. Credit only granted for KNES131V or KNES131N. Students must pay a $40 instructional materials fee. Beginning jogging prepares students to safely jog for 30 minutes continuously or to cover a 5K distance by the end of the semester.

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|---|---|---|---|
| 0101 | Naomi Arnold | Seats (Total: 30) | |
| | Class time/details on ELMs | ONLINE | |
| | Class time/details on ELMs | ONLINE | Lab |
| 0102 | Naomi Arnold | Seats (Total: 30) | |
| | Class time/details on ELMs | ONLINE | |
| | Class time/details on ELMs | ONLINE | Lab |

**KNES137N** **Physical Education Activities: Coed; Golf (Beginning)**

*Focuses on helping the student improve on existing golf skills, lower their score and expand their overall knowledge of the game of golf. This is an intermediate golf class intended for those with previous playing experience.*

Restricted to KNES majors only (08351). Non-majors may join a hold file. Attendance is required the first day of class. Schedule adjustment is the first week of class only. Students must pay a $40 instructional materials fee. Restrictred to students in KNES major (08351).

| | | | |
|---|---|---|---|
| 0101 | Jeff Maynor | Seats (Total: 24) | |
| | **Meets August 26, 2024 - October 15, 2024** | | |
| | MW 10:00am - 12:00pm | GLF 1102 | Lab |

**KNES137O** **Physical Education Activities: Coed; Golf (Intermediate)**

*Focuses on helping the student improve on existing golf skills, lower their score and expand their overall knowledge of the game of golf. This is an intermediate golf class intended for those with previous playing experience.*

Restricted to KNES majors only (08351). Non-majors may join a hold file. Attendance is required the first day of class. Schedule adjustment is the first week of class only. Students must pay a $40 instructional materials fee. Restrictred to students in KNES major (08351).

| | | | |
|---|---|---|---|
| 0101 | Jeff Maynor | Seats (Total: 24) | |
| | **Meets August 26, 2024 - October 15, 2024** | | |
| | MW 12:00pm - 2:00pm | GLF 1102 | Lab |

**KNES140R** **Physical Education Activities: Coed; Trampoline (Beginning)**

Restricted to KNES majors only (08351). Non-majors may join a hold file. Attendance is required on the first day of class. Scheduled adjustment is the first week of classes only. Students must pay a $40.00 instructional materials fee.

| | | | |
|---|---|---|---|
| 0101 | Joshua Montfort | Seats (Total: 24) | |
| | **Meets August 26, 2024 - October 15, 2024** | | |
| | MW 10:00am - 11:50am | SPH 1120 | Lab |

**KNES140V** **Physical Education Activities: Coed; Tumbling & Balancing (Beginning)**

Restricted to KNES majors only (08351). Non-majors may join a hold file. Attendance is required on the first day of class. Scheduled adjustment is the first week of classes only. Students must pay a $40.00 instructional materials fee.

| | | | |
|---|---|---|---|
| 0201 | Joshua Montfort | Seats (Total: 24) | |
| | **Meets October 16, 2024 - December 9, 2024** | | |
| | MW 10:00am - 11:50am | SPH 1120 | Lab |

**KNES144Q** **Physical Education Activities: Coed; Martial Arts, Karate (Beginning)**

Attendance is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee.

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|---|---|---|---|
| 0101 | Kenneth Klotz | Seats (Total: 30) | |
| | MW 10:00am - 11:50am | SPH 0107 | Lab |

**KNES144T** **Physical Education Activities: Coed; Self-Defense (Beginning)**

Attendance is required of all students beginning the first day of class. Students must pay a $40 instructional materials fee.

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|---|---|---|---|
| 0101 | Kenneth Klotz | Seats (Total: 30) | |
| | MW 8:00am - 9:50am | SPH 0107 | Lab |
| 0102 | Kenneth Klotz | Seats (Total: 30) | |
| | WF 12:00pm - 1:50pm | SPH 0107 | Lab |

**KNES154N** **Physical Education Activities: Coed; Swimming (Beginning)**

*Designed to increase water comfort, introduce students to the 6 basic swimming strokes and techniques, and improve one's level of physical fitness through swimming.*

Attendance is required of all students beginning the first day of class. Schedule adjustment is the first week of classes only. Students must pay a $40 instructional materials fee. Restricted to KNES majors, non-majors can go onto a holdfile.

| | | | |
|---|---|---|---|
| 0101 | Stephanie Draminski | Seats (Total: 22) | |
| | **Meets August 26, 2024 - October 11, 2024** | | |
| | TuTh 9:00am - 10:50am | ERC B0120 | Lab |

**KNES155N** **Physical Education Activities: Coed; Tennis**

*Students will be provided a comprehensive overview of the sport by integrating fundamental tennis skills with a historical appreciation for the sport and its function in the greater sport world. Students will learn the rules of tennis, and implement their understanding in a series of skill tests and tournament activities.*

Restricted to KNES majors only. Non-majors may join a hold file. Students must pay a $40.00 instructional materials fee. Attendance is required on the first day of class.

| | | | |
|---|---|---|---|
| 0101 | Selma Cadar | Seats (Total: 32) | |
| | **Meets August 26, 2024 - October 15, 2024** | | |
| | TuTh 10:00am - 11:50am | SPH 2101 | Lab |

| | | | |
|---|---|---|---|
| 0102 | Selma Cadar<br>**Meets August 26, 2024 - October 15, 2024**<br>TuTh 12:00pm - 1:50pm | Seats (Total: 32)<br>SPH 2101 | Lab |

**KNES156** **Pickleball**

*This is a co-ed physical activity course for pickleball.*

Students must pay a $40.00 instructional materials fee. Attendance is required on the first day of class.

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|---|---|---|---|
| 0101 | Polly Sebastian Schurer<br>**Meets August 26, 2024 - October 15, 2024**<br>MW 9:00am - 10:50am<br>*Section enrollment restricted by KNES department permission only.* | Seats (Total: 24)<br>SPH 2101 | Lab |
| 0102 | Andrea Liberto<br>**Meets August 26, 2024 - October 15, 2024**<br>TuTh 2:00pm - 3:50pm<br>*Restricted to KNES majors only. Non-majors may join a hold file.* | Seats (Total: 24)<br>SPH 2101 | Lab |
| 0201 | Polly Sebastian Schurer<br>**Meets October 16, 2024 - December 9, 2024**<br>MW 12:00pm - 1:50pm<br>*Section enrollment restricted by KNES department permission only.* | Seats (Total: 24)<br>SPH 2101 | Lab |
| 0202 | Andrea Liberto<br>**Meets October 16, 2024 - December 9, 2024**<br>TuTh 2:00pm - 3:50pm<br>*Restricted to KNES majors only. Non-majors may join a hold file.* | Seats (Total: 24)<br>SPH 2101 | Lab |

**KNES157N** **Physical Education Activities: Coed; Weight Training (Beginning)**

Restricted to KNES majors only (08351). Non-majors may join a hold file. Attendance is required the first day of class. Schedule adjustment is the first week of class only. Students must pay a $40 instructional materials fee.

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|---|---|---|---|
| 0101 | Jo Zimmerman<br>**Meets August 26, 2024 - October 15, 2024**<br>Contact instructor or department for details.<br>WF 11:00am - 12:50pm<br>*Restricted to students in KNES major (08351).* | Seats (Total: 25)<br>SPH 0103 | Lab |
| 0201 | Jo Zimmerman<br>**Meets October 16, 2024 - December 9, 2024**<br>Contact instructor or department for details.<br>WF 11:00am - 12:50pm<br>*Restricted to students in KNES major (08351).* | Seats (Total: 25)<br>SPH 0103 | Lab |

**KNES161T** **Physical Education Activities: Coed; Yoga**

Restricted to KNES majors only (08351). Non-majors may join a hold file. Attendance is required of all students beginning the first day of class. Schedule adjustment is the first week of classes only. Students must pay a $40 instructional materials fee.

| | | | |
|---|---|---|---|
| 0101 | Kate Shin<br>**Meets August 26, 2024 - October 15, 2024**<br>TuTh 11:00am - 12:50pm<br>*Restricted to students in KNES major (08351).* | Seats (Total: 30)<br>SPH 0107 | Lab |
| 0201 | Kate Shin<br>**Meets October 16, 2024 - December 9, 2024**<br>TuTh 11:00am - 12:50pm<br>*Restricted to students in KNES major (08351).* | Seats (Total: 30)<br>SPH 0107 | Lab |

**KNES173** **Beginner BJJ & Martial Arts**

*This is a coed physical activity course which introduces students to Brazilian Jiu-Jitsu through physically participating in fundamentals of the Art. Brazilian Jiu-Jitsu (BJJ) is a Brazilian martial art derived from the Japanese style, with a focus on grappling with particular emphasis on ground techniques. Students will learn basic escapes/submissions from ground positions. The student will learn and develop rudimentary skills necessary to progress in the above mentioned style. The course is taught at a beginner level and sparring (rolling) will not be permitted.*

Students must pay a $40.00 instructional materials fee. Attendance is required on the first day of class.

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|---|---|---|---|
| 0101 | Michael Dorothy<br>TuTh 9:00am - 10:50am | Seats (Total: 30)<br>SPH 0107 | Lab |

**KNES182** **Soccer**

*Restriction: Must be in a major within the SPHL-Kinesiology department. Credit only granted for: KNES182 or KNES152N. Formerly: KNES152N.*

*Provides students with a comprehensive overview of the sport by integrating fundamental and beginning soccer skills with a historical appreciation for and current cultural importance of the sport. Students will learn the rules of soccer, basic soccer-specific training activities and use their understanding of rules and concepts in game related activities*

Restricted to KNES majors only. Non-majors may join a hold file. Students must pay a $40.00 instructional materials fee. Attendance is required on the first day of class.

| | | | |
|---|---|---|---|
| 0101 | Emma Powell<br>**Meets August 26, 2024 - October 15, 2024**<br>MW 2:00pm - 3:50pm | Seats (Total: 24)<br>SPH 2101 | Lab |
| 0201 | Emma Powell<br>**Meets October 16, 2024 - December 9, 2024**<br>MW 2:00pm - 3:50pm | Seats (Total: 24)<br>SPH 2101 | Lab |

**KNES200** **Introduction to Kinesiology**

*Restriction: Must be a Kinesiology major within first 2 semesters; or must not be in Kinesiology program and have less than 45 credits. Credit only granted for: KNES200 or KNES201.*

*Kinesiology is the interdisciplinary study of physical activity that includes seven sub-disciplines: 1) exercise physiology; 2) biomechanics; 3) sport psychology; 4) motor development; 5) motor control; 6) sport history; and 7) sport sociology. This course will examine these areas of study within Kinesiology from scientific and applied perspectives.*

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|---|---|---|---|
| 0101 | Andrea Liberto<br>Class time/details on ELMs<br>Tu 9:30am - 10:45am<br>*Restricted to KNES major only with 30 credit hours or less.* | Seats (Total: 30)<br>ONLINE<br>SPH 0302 | Discussion |
| 0102 | Andrea Liberto<br>Class time/details on ELMs<br>Tu 11:00am - 12:15pm<br>*Restricted to KNES major only with 30 credit hours or less.* | Seats (Total: 30)<br>ONLINE<br>SPH 1302 | Discussion |

| | | | |
|---|---|---|---|
| 0103 | Andrea Liberto | Seats (Total: 30) | |
| | Class time/details on ELMs<br>Th 9:30am - 10:45am | ONLINE<br>SPH 0302 | Discussion |
| | *Restricted to KNES major only with 30 credit hours or less.* | | |
| 0104 | Andrea Liberto | Seats (Total: 30) | |
| | Class time/details on ELMs<br>Th 11:00am - 12:15pm | ONLINE<br>SPH 1302 | Discussion |
| | *Restricted to any students with 45 credit hours or less.* | | |
| FC01 | Emma Powell | Seats (Total: 32) | |
| | Tu 4:30pm - 5:45pm<br>Class time/details on ELMs | SPH 0308<br>ONLINE | |
| | *Restricted to students in Freshmen Connection.* | | |

**KNES214** **Science and Methods of Personal Fitness Instruction**

*Credit only granted for: KNES214 or KNES210 and KNES211, or KNES210 and KNES212, or KNES289N. Formerly: KNES210/KNES211, KNES210/KNES212, and KNES289N.*

*Basic concepts of human anatomy, exercise physiology, applied kinesiology, nutrition and the physiology of exercise training. Includes the CORE knowledge required for the American Council on Exercise (ACE) Personal Trainer certification.*

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|---|---|---|---|
| 0101 | Tami Lee | Seats (Total: 25) | |
| | Class time/details on ELMs<br>M 9:00am - 10:50am | ONLINE<br>SPH 0103 | Lab |
| 0102 | Tami Lee | Seats (Total: 25) | |
| | Class time/details on ELMs<br>W 9:00am - 10:50am | ONLINE<br>SPH 0103 | Lab |

**KNES225** **Hoop Dreams: Black Masculinity and Sport**

*Credit only granted for: KNES289R OR KNES225. Formerly: KNES289R.*

*Has sport disadvantaged African American males? This course critically examines sport as a site where notions of black masculinity are publicly debated, critiqued, challenged, celebrated, and also transformed. Utilizing an interdisciplinary approach, this course explores how sport has been invoked across the political and ideological spectrum to interrogate a number of issues impacting the life chances of young, African Americans males including educational attainment, poverty, social mobility, racism, cultural production, and notions of masculinity.*

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|---|---|---|---|
| 0101 | Ronald Mower | Seats (Total: 45) | |
| | MW 4:00pm - 5:15pm | SPH 0308 | |

**KNES226** **The Cybernetic Human**

*Credit only granted for: KNES289W OR KNES226. Formerly: KNES289W.*

*Can the profound and rapid technological advances experienced in the 21st century change what it means to be human or the nature of humanity? Emergent technologies, new materials, increased computer power, engineering innovations, and groundbreaking work in the sciences of cognition and action provide myriad opportunities for repairing and enhancing the human body and brain. Examines the ethical, social, and technological implications of an increasing synergism of technology and the body in sports and the arts, at work or home, rehabilitating the body and the brain, and society at large.*

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|---|---|---|---|
| 0101 | Tim Kiemel<br>MF 1:00pm - 1:50pm<br>W 11:00am - 11:50am | Seats (Total: 20)<br>SPH 1312<br>SPH 0303 | <br><br>Discussion |
| 0102 | Tim Kiemel<br>MF 1:00pm - 1:50pm<br>W 12:00pm - 12:50pm | Seats (Total: 20)<br>SPH 1312<br>SPH 0303 | <br><br>Discussion |
| 0103 | Tim Kiemel<br>MF 1:00pm - 1:50pm<br>W 1:00pm - 1:50pm | Seats (Total: 20)<br>SPH 1312<br>SPH 0303 | <br><br>Discussion |
| 0104 | Tim Kiemel<br>MF 1:00pm - 1:50pm<br>W 2:00pm - 2:50pm | Seats (Total: 20)<br>SPH 1312<br>SPH 0303 | <br><br>Discussion |

**KNES260** **Science of Physical Activity and Cardiovascular Health**

*Course details (1) the public health importance of and the processes underlying cardiovascular disease, (2) the risk factors for cardiovascular disease and the methods whereby they were identified, and (3) the principles of the scientific evidence supporting the use of physical activity to prevent cardiovascular disease.*

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|---|---|---|---|
| 0101 | James Hagberg<br>MW 12:00pm - 12:50pm<br>M 9:00am - 9:50am | Seats (Total: 22)<br>SPH 0302<br>SPH 0125 | <br><br>Discussion |
| 0102 | James Hagberg<br>MW 12:00pm - 12:50pm<br>M 10:00am - 10:50am | Seats (Total: 22)<br>SPH 0302<br>SPH 0125 | <br><br>Discussion |

**KNES265** **Mathematical, Physical, & Statistical Basis of Kinesiology**

*Credit only granted for: KNES265 or KNES289P. Formerly: KNES289P.*

*Mathematical, physical, and statistical foundations for human movement quantification, analysis, and evaluation. Upon successful completion, this course is expected to better prepare students for the science Core courses, such as biomechanics, exercise physiology, and motor control, that are required for Kinesiology majors.*

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|---|---|---|---|
| 0101 | Jae Kun Shim | Seats (Total: 30) | |
| | Class time/details on ELMs | ONLINE | |

**KNES282** **Basic Care and Prevention of Athletic Injuries**

*Restriction: Must be in a major within the SPHL-Kinesiology department.*

*Theoretical and practical foundations of the prevention, treatment and rehabilitation of athletically related injuries. Topics include: physical conditioning, preventive taping, recognition of injuries, first aid and CPR.*

KNES Majors only.

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|---|---|---|---|
| 0101 | Joanne Klossner | Seats (Total: 40) | |
| | TuTh 2:00pm - 3:15pm | SPH 1303 | |
| | *This section is for KNES Majors Only.* | | |

**KNES285** **History of Physical Culture, Sport, & Science in America**

*Restriction: Restricted to majors or non-majors with less than or equal to 60 credits. Credit only granted for: KNES285 or KNES293.*

*Examines the history of physical culture in America, focusing on the period from the end of the Civil War to the Cold War. Physical culture refers to a broad range of movement practices including sport, play, rehabilitative exercise, health and fitness training, and recreation and leisure. More specifically, we challenge the idea that historical physical culture practices--and the scientific processes from which they were derived--were 'neutral' or 'objective'; rather, we explore the cultural, social, political, and economic contexts shaping physical culture knowledge, study, structures, and policies across American history. The goal is for you to learn and apply techniques of historical analysis to develop a critical understanding of how knowledge about, and practices of, physical culture supported a particular social order via the construction of difference, norms, and/or hierarchies, and ultimately contributed to some of the inequalities that endure today.*

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|---|---|---|---|
| 0101 | Shannon Jette | Seats (Total: 18) | |
| | MW 10:00am - 10:50am<br>W 1:00pm - 1:50pm | SPH 1312<br>SPH 0305 | <br>Discussion |
| 0102 | Shannon Jette | Seats (Total: 18) | |
| | MW 10:00am - 10:50am<br>W 2:00pm - 2:50pm | SPH 1312<br>SPH 0305 | <br>Discussion |

| | | | |
|---|---|---|---|
| 0103 | Shannon Jette<br>MW 10:00am - 10:50am<br>W 3:00pm - 3:50pm | Seats (Total: 18)<br>SPH 1312<br>SPH 0305 | Discussion |
| 0104 | Shannon Jette<br>MW 10:00am - 10:50am<br>F 10:00am - 10:50am<br>*This section is restricted to incoming students in Kinesiology.* | Seats (Total: 18)<br>SPH 1312<br>SPH 0305 | Discussion |
| 0105 | Shannon Jette<br>MW 10:00am - 10:50am<br>F 11:00am - 11:50am<br>*This section is restricted to incoming students in Kinesiology.* | Seats (Total: 18)<br>SPH 1312<br>SPH 0305 | Discussion |
| 0106 | Shannon Jette<br>MW 10:00am - 10:50am<br>F 12:00pm - 12:50pm | Seats (Total: 18)<br>SPH 1312<br>SPH 0305 | Discussion |

**KNES286** **Empowering Healthy Physical Activity**

*Learn evidence-based techniques that health professionals use to promote physical activity programs that meet the needs of diverse populations. Develop and implement an intervention plan targeting a specific population.*

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|---|---|---|---|
| 0101 | Jo Zimmerman<br>TuTh 2:00pm - 3:15pm | Seats (Total: 24)<br>SPH 0121 | |

**KNES287** **Sport and American Society**

*Recommended: Minimum grade of C- in KNES285.*

*Sport will be related to such social problems as delinquency, segregation, collective behavior, and leisure; to social processes such as socialization, stratification, mobility, and social control; and to those familiar social institutions the family, the school, the church, the military, the economy, the polity, and the mass media.*

Restricted to majors or non-majors with less than or equal to 45 credits.

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|---|---|---|---|
| 0101 | David Andrews<br>MW 2:00pm - 2:50pm<br>M 8:00am - 8:50am | Seats (Total: 18)<br>SKN 0200<br>SPH 0305 | Discussion |
| 0102 | David Andrews<br>MW 2:00pm - 2:50pm<br>M 9:00am - 9:50am | Seats (Total: 18)<br>SKN 0200<br>SPH 0305 | Discussion |

| | | | |
|---|---|---|---|
| 0103 | David Andrews<br>MW 2:00pm - 2:50pm<br>M 10:00am - 10:50am | Seats (Total: 18)<br>SKN 0200<br>SPH 0305 | Discussion |
| | *This section is restricted to incoming students in Kinesiology.* | | |
| 0104 | David Andrews<br>MW 2:00pm - 2:50pm<br>M 11:00am - 11:50am | Seats (Total: 18)<br>SKN 0200<br>SPH 0305 | Discussion |
| | *This section is restricted to incoming students in Kinesiology.* | | |
| 0105 | David Andrews<br>MW 2:00pm - 2:50pm<br>W 8:00am - 8:50am | Seats (Total: 18)<br>SKN 0200<br>SPH 0305 | Discussion |
| 0106 | David Andrews<br>MW 2:00pm - 2:50pm<br>W 9:00am - 9:50am | Seats (Total: 18)<br>SKN 0200<br>SPH 0305 | Discussion |
| FC01 | Ronald Mower<br>MW 6:00pm - 7:15pm | Seats (Total: 40)<br>ATL 2428 | |
| | *Restricted to students in Freshmen Connection.* | | |

**KNES289** **Topical Investigations**

(Perm req)

*Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.*

Prerequisite: permission of department.

**Contact department for information to register for this course.**

**KNES289B** **Topical Investigations; Baseball: The National Pastime**

*Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.*

Examines the place of baseball in American society from historical, geographical, economic, and sociological perspectives.

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| 0101 | Michael Friedman<br>MW 3:30pm - 4:45pm | Seats (Total: 32)<br>SPH 0302 | |

**KNES289Z** **Topical Investigations; The Kinesiology Major**

(Perm req)

*Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.*

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| 0101 | Polly Sebastian Schurer<br>**Meets August 26, 2024 - October 15, 2024**<br>M 12:00pm - 12:50pm<br>*This section is restricted to incoming students in Kinesiology.* | Seats (Total: 24)<br><br>SPH 0305 | |
| 0201 | Polly Sebastian Schurer<br>**Meets October 16, 2024 - December 9, 2024**<br>M 9:00am - 9:50am<br>*This section is restricted to incoming students in Kinesiology.* | Seats (Total: 24)<br><br>SPH 0303 | |

**KNES300 Biomechanics of Human Motion**

*Prerequisite: Minimum grade of C- in BSCI201; and minimum grade of C- in MATH113 or higher. Recommended: KNES265 or PHYS121. Restriction: Must be in a major within SPHL-Kinesiology department.*

*The study of human movement and the physical and physiological principles upon which it depends. Body mechanics, posture, motor efficiency, sports, the performance of a typical individual and the influence of growth and development upon motor performance.*

Students must pay a $75 lab fee.

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| 0101 | Ross Miller<br>MW 3:00pm - 4:15pm<br>Tu 8:00am - 9:50am | Seats (Total: 12)<br>SPH 1312<br>SPH 0223 | <br><br>Lab |
| 0102 | Ross Miller<br>MW 3:00pm - 4:15pm<br>Tu 10:00am - 11:50am | Seats (Total: 12)<br>SPH 1312<br>SPH 0223 | <br><br>Lab |
| 0103 | Ross Miller<br>MW 3:00pm - 4:15pm<br>Tu 12:00pm - 1:50pm | Seats (Total: 12)<br>SPH 1312<br>SPH 0223 | <br><br>Lab |
| 0104 | Ross Miller<br>MW 3:00pm - 4:15pm<br>Tu 2:00pm - 3:50pm | Seats (Total: 12)<br>SPH 1312<br>SPH 0223 | <br><br>Lab |

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|---|---|---|---|
| 0105 | Ross Miller<br>MW 3:00pm - 4:15pm<br>Th 8:00am - 9:50am | Seats (Total: 12)<br>SPH 1312<br>SPH 0223 | <br><br>Lab |
| 0106 | Ross Miller<br>MW 3:00pm - 4:15pm<br>Th 10:00am - 11:50am | Seats (Total: 12)<br>SPH 1312<br>SPH 0223 | <br><br>Lab |

**KNES305** **Principles & Application of Exercise Rehabilitation**

*Prerequisite: Minimum grade of C- in BSCI201 and BSCI202; and 1 course with a minimum grade of C- from (KNES300, KNES350, KNES360, KNES370, KNES385). Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits. Credit only granted for: KNES498T or KNES305. Formerly: KNES498T.*

*In-depth analysis of the basic principles of rehabilitation and exercise programming for common injuries encountered in a clinical setting. Basic assessment techniques, ranges of motion, muscular anatomy, rehabilitative protocols, and exercise modalities are a major focus.*

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| 0101 | Larry Plotkin<br>TuTh 8:00am - 9:15am | Seats (Total: 30)<br>SPH 0308 |

**KNES305H** **Principles & Application of Exercise Rehabilitation**

(Perm req)

*Prerequisite: Minimum grade of C- in BSCI201 and BSCI202; and 1 course with a minimum grade of C- from (KNES300, KNES350, KNES360, KNES370, KNES385). Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits. Credit only granted for: KNES498T or KNES305. Formerly: KNES498T.*

*In-depth analysis of the basic principles of rehabilitation and exercise programming for common injuries encountered in a clinical setting. Basic assessment techniques, ranges of motion, muscular anatomy, rehabilitative protocols, and exercise modalities are a major focus.*

Restricted to students who have been admitted in the Kinesiology Honors program.

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|---|---|---|
| 0101 | Larry Plotkin<br>TuTh 8:00am - 9:15am | Seats (Total: 3)<br>SPH 0308 |

**KNES306** **Prosthetics for Limb Amputations**

*Prerequisite: Minimum grade of C- in BSCI201, BSCI202, and KNES300. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits. Credit only granted for: KNES306 or KNES498W. Formerly: KNES498W.*

*Introduction to the science of prosthetics and the artificial devices that are designed, developed and fit to replace the missing body part or parts lost through trauma, disease or congenital conditions.*

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| 0101 | Michelle Jamin<br>W 5:00pm - 7:30pm | Seats (Total: 28)<br>SPH 0307 | |

**KNES306H** **Prosthetics for Limb Amputations**

(Perm req)

*Prerequisite: Minimum grade of C- in BSCI201, BSCI202, and KNES300. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits. Credit only granted for: KNES306 or KNES498W. Formerly: KNES498W.*

*Introduction to the science of prosthetics and the artificial devices that are designed, developed and fit to replace the missing body part or parts lost through trauma, disease or congenital conditions.*

Restricted to students who have been admitted in the Kinesiology Honors program.

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|---|---|---|---|
| 0101 | Michelle Jamin<br>W 5:00pm - 7:30pm | Seats (Total: 2)<br>SPH 0307 | |

**KNES320** **Physiological Basis of Physical Activity and Human Health**

*Prerequisite: Minimum grade of C- in BSCI201 and BSCI202. Restriction: Must be in Public Health Science program. Credit only granted for: KNES360 or KNES320.*

*A study of the responses and chronic adaptations to physical activity and exercise, with particular emphasis on the interaction between human health and physical activity. The laboratory component of course will focus on the assessment of physical activity and measurement of physiological adaptations to exercise. Students are expected to gain an understanding and appreciation for the benefits of physical activity and exercise in the context of public health.*

Students must pay a $75 lab fee.

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| 0101 | Jeffrey Beans<br>Class time/details on ELMs<br>Th 4:00pm - 5:15pm<br>M 12:00pm - 1:50pm | Seats (Total: 18)<br>ONLINE<br>SPH 1312<br>SPH 0125 | <br><br><br>Lab |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0102 | Jeffrey Beans<br>Class time/details on ELMs<br>Th 4:00pm - 5:15pm<br>M 2:00pm - 3:50pm | Seats (Total: 18)<br>ONLINE<br>SPH 1312<br>SPH 0125 | <br><br><br>Lab |
| | *Restricted to College Park students in the Public Health Science major.* | | |

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|---|---|---|---|
| 0103 | Jeffrey Beans | Seats (Total: 18) | |
| | Class time/details on ELMs<br>Th 4:00pm - 5:15pm<br>W 8:00am - 9:50am | ONLINE<br>SPH 1312<br>SPH 0125 | <br><br>Lab |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0104 | Jeffrey Beans | Seats (Total: 18) | |
| | Class time/details on ELMs<br>Th 4:00pm - 5:15pm<br>W 10:00am - 11:50am | ONLINE<br>SPH 1312<br>SPH 0125 | <br><br>Lab |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0105 | Jeffrey Beans | Seats (Total: 18) | |
| | Class time/details on ELMs<br>Th 4:00pm - 5:15pm<br>W 12:00pm - 1:50pm | ONLINE<br>SPH 1312<br>SPH 0125 | <br><br>Lab |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0106 | Jeffrey Beans | Seats (Total: 18) | |
| | Class time/details on ELMs<br>Th 4:00pm - 5:15pm<br>W 2:00pm - 3:50pm | ONLINE<br>SPH 1312<br>SPH 0125 | <br><br>Lab |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0107 | Jeffrey Beans | Seats (Total: 18) | |
| | Class time/details on ELMs<br>Th 4:00pm - 5:15pm<br>F 10:00am - 11:50am | ONLINE<br>SPH 1312<br>SPH 0125 | <br><br>Lab |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0108 | Jeffrey Beans | Seats (Total: 18) | |
| | Class time/details on ELMs<br>Th 4:00pm - 5:15pm<br>F 12:00pm - 1:50pm | ONLINE<br>SPH 1312<br>SPH 0125 | <br><br>Lab |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| ESG1 | Noah Gibson | Seats (Total: 22) | |
| | Class time/details on ELMs<br>W 10:00am - 11:50am | ONLINE<br>BLD4 2328 | <br>Lab |
| | *Restricted to Shady Grove students in the Public Health Science major.* | | |

**KNES332** **Exercise Testing & Prescription for Fitness Professionals**

*Prerequisite: Minimum grade of C- in KNES360. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits. Credit only granted for: KNES332 or KNES389G. Formerly: KNES389G.*

*Practical applications of exercise physiology and psychology to target fitness instruction for the general adult population Includes discussion of certification standards and professional development as well as evaluation of program safety and current trends.*

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| 0101 | Jo Zimmerman<br>WF 8:00am - 9:50am | Seats (Total: 25)<br>SPH 0302 |

**KNES332H** **Exercise Testing & Prescription for Fitness Professionals**

(Perm req)

*Prerequisite: Minimum grade of C- in KNES360. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits. Credit only granted for: KNES332 or KNES389G. Formerly: KNES389G.*

*Practical applications of exercise physiology and psychology to target fitness instruction for the general adult population Includes discussion of certification standards and professional development as well as evaluation of program safety and current trends.*

Restricted to students who have been admitted in the Kinesiology Honors program.

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|---|---|---|
| 0101 | Jo Zimmerman<br>WF 8:00am - 9:50am | Seats (Total: 2)<br>SPH 0302 |

**KNES347** **Sport Economics**

*Prerequisite: Minimum grade of C- in KNES287. Recommended: KNES355, ECON111, and ECON200. Restriction: Must have earned a minimum of 75 credits. Credit only granted for: KNES347 or KNES389I. Formerly: KNES389I.*

*Through combining fantasy football with a sports business simulation, students will develop a better understanding of the sports industry through the application of economic concepts. Topics include: sports teams and leagues, public finance of stadiums and sports events, and labor issues in sports.*

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| 0101 | Michael Friedman<br>MW 2:00pm - 3:15pm<br>Class time/details on ELMs | Seats (Total: 32)<br>SPH 1302<br>ONLINE |

**KNES350** **The Psychology of Sports & Exercise**

*Restriction: Must have earned a minimum of 45 credits.*

*An exploration of personality factors, including but not limited to motivation, aggression and emotion, as they affect sports participation and motor skill performance.*

Restricted to students with a minimum of 45 credit or greater.

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|---|---|---|
| 0101 | Elizabeth Brown<br>TuTh 2:00pm - 3:15pm<br>*Restricted to students in KNES major (08351).* | Seats (Total: 40)<br>SPH 1312 |
| 0102 | Elizabeth Brown<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>SPH 1312 |
| 0103 | Jay Goldstein<br>TuTh 9:30am - 10:45am<br>*Restricted to students in KNES major (08351).* | Seats (Total: 40)<br>SPH 1312 |
| 0104 | Jay Goldstein<br>TuTh 9:30am - 10:45am | Seats (Total: 30)<br>SPH 1312 |

**KNES350H** **The Psychology of Sports & Exercise**

(Perm req)

*Restriction: Must have earned a minimum of 45 credits.*

*An exploration of personality factors, including but not limited to motivation, aggression and emotion, as they affect sports participation and motor skill performance.*

Restricted to students who have been admitted in the Kinesiology Honors program.

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|---|---|---|
| 0101 | Elizabeth Brown<br>TuTh 2:00pm - 3:15pm | Seats (Total: 3)<br>SPH 1312 |

**KNES355** **Sport Management**

*Prerequisite: Minimum grade of C- in KNES287. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.*

*Application of concepts and issues related to management principles and business concerns across various sections of the sport industry. Principles pertaining to the management of sport organizations.*

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|---|---|---|
| 0101 | Stephen McDaniel<br>TuTh 12:30pm - 1:45pm | Seats (Total: 27)<br>SPH 0303 |

**KNES355H** **Sport Management**

(Perm req)

*Prerequisite: Minimum grade of C- in KNES287. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.*

*Application of concepts and issues related to management principles and business concerns across various sections of the sport industry. Principles pertaining to the management of sport organizations.*

Restricted to students who have been admitted in the Kinesiology Honors program.

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|---|---|---|---|
| 0101 | Stephen McDaniel<br>TuTh 12:30pm - 1:45pm | Seats (Total: 3)<br>SPH 0303 | |

**KNES360** **Physiology of Exercise**

*Prerequisite: Minimum grade of C- in BSCI201 and BSCI202; or permission of SPHL-Kinesiology department. Restriction: Must be in one of the following programs (Kinesiology; Public Health Science).*

*A study of the physiology of exercise, including concepts of work, muscular contraction, energy transformation, metabolism, oxygen debt, and nutrition and athletic performance. Emphasis on cardiovascular and respiratory function in relation to physical activity and training.*

Students must pay a $75 lab fee.

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|---|---|---|---|
| 0101 | Sarah Glancy<br>MWF 12:00pm - 12:50pm<br>Tu 8:00am - 9:50am<br>*Restricted to students in the Kinesiology major (code:08351).* | Seats (Total: 12)<br>SPH 1312<br>SPH 0125 | Lab |
| 0102 | Sarah Glancy<br>MWF 12:00pm - 12:50pm<br>Tu 10:00am - 11:50am<br>*Restricted to students in the Kinesiology major (code:08351).* | Seats (Total: 12)<br>SPH 1312<br>SPH 0125 | Lab |
| 0103 | Sarah Glancy<br>MWF 12:00pm - 12:50pm<br>Tu 12:00pm - 1:50pm<br>*Restricted to students in the Kinesiology major (code:08351).* | Seats (Total: 12)<br>SPH 1312<br>SPH 0125 | Lab |
| 0104 | Sarah Glancy<br>MWF 12:00pm - 12:50pm<br>Tu 2:00pm - 3:50pm<br>*Restricted to students in the Kinesiology major (code:08351).* | Seats (Total: 12)<br>SPH 1312<br>SPH 0125 | Lab |
| 0107 | Sarah Glancy<br>MWF 12:00pm - 12:50pm<br>Th 12:00pm - 1:50pm<br>*Restricted to students in the Kinesiology major (code:08351).* | Seats (Total: 12)<br>SPH 1312<br>SPH 0125 | Lab |

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|---|---|---|---|
| 0108 | Sarah Glancy<br>MWF 12:00pm - 12:50pm<br>Th 2:00pm - 3:50pm | Seats (Total: 12)<br>SPH 1312<br>SPH 0125 | <br><br>Lab |
| | *Restricted to students in the Kinesiology major (code:08351).* | | |

**KNES370** **Motor Development**

*Restriction: Must be in a major within SPHL-Kinesiology department.*

*Motor development across the life span. The developmental sequences of motor skills from birth to old age; neuromaturation of neuromuscular system; analysis of the underlying mechanisms of motor skill development; and correlates of motor development.*

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|---|---|---|---|
| 0101 | Tim Kiemel<br>MW 2:00pm - 2:50pm<br>M 8:00am - 8:50am | Seats (Total: 16)<br>SPH 1312<br>SPH 0223 | <br><br>Lab |
| | *This section is restricted to incoming students in Kinesiology.* | | |
| 0102 | Tim Kiemel<br>MW 2:00pm - 2:50pm<br>M 9:00am - 9:50am | Seats (Total: 16)<br>SPH 1312<br>SPH 0223 | <br><br>Lab |
| 0105 | Tim Kiemel<br>MW 2:00pm - 2:50pm<br>W 8:00am - 8:50am | Seats (Total: 16)<br>SPH 1312<br>SPH 0223 | <br><br>Lab |
| 0106 | Tim Kiemel<br>MW 2:00pm - 2:50pm<br>W 9:00am - 9:50am | Seats (Total: 16)<br>SPH 1312<br>SPH 0223 | <br><br>Lab |
| 0107 | Tim Kiemel<br>MW 2:00pm - 2:50pm<br>W 10:00am - 10:50am | Seats (Total: 16)<br>SPH 1312<br>SPH 0223 | <br><br>Lab |
| 0108 | Tim Kiemel<br>MW 2:00pm - 2:50pm<br>W 11:00am - 11:50am | Seats (Total: 16)<br>SPH 1312<br>SPH 0223 | <br><br>Lab |
| | *This section is restricted to incoming students in Kinesiology.* | | |

**KNES385** **Motor Control and Learning**

*Prerequisite: Minimum grade of C- in BSCI201, and a minimum grade of C- in MATH113 or higher. Recommended: KNES265 or PHYS121. Restriction: Must be in a major within SPHL-Kinesiology department.*

*This introductory course investigates how humans control and adapt their movements to perform and learn a variety of motor skills, ranging from activities of daily living to elite athlete performance. This course examines the underlying cognitive, sensory and motor processes of control and adaptation of human movements both at the behavioral and neurophysiological levels. Relevant applications to movement rehabilitation as well as performance optimization are employed to illustrate the concepts discussed in class. The cognitive, sensory and motor mechanisms underlying motor control are explored first and then in a motor learning context.*

Students must pay a $75 lab fee.

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|---|---|---|---|
| 0101 | Rodolphe Gentili<br>TuTh 12:30pm - 1:45pm<br>M 12:00pm - 1:50pm | Seats (Total: 12)<br>TWS 0320<br>SPH 0223 | <br><br>Lab |
| 0102 | Rodolphe Gentili<br>TuTh 12:30pm - 1:45pm<br>M 2:00pm - 3:50pm | Seats (Total: 12)<br>TWS 0320<br>SPH 0223 | <br><br>Lab |
| 0103 | Rodolphe Gentili<br>TuTh 12:30pm - 1:45pm<br>W 12:00pm - 1:50pm | Seats (Total: 12)<br>TWS 0320<br>SPH 0223 | <br><br>Lab |
| 0104 | Rodolphe Gentili<br>TuTh 12:30pm - 1:45pm<br>W 2:00pm - 3:50pm | Seats (Total: 12)<br>TWS 0320<br>SPH 0223 | <br><br>Lab |
| 0106 | Rodolphe Gentili<br>TuTh 12:30pm - 1:45pm<br>F 10:00am - 11:50am | Seats (Total: 12)<br>TWS 0320<br>SPH 0223 | <br><br>Lab |
| 0107 | Rodolphe Gentili<br>TuTh 12:30pm - 1:45pm<br>F 12:00pm - 1:50pm | Seats (Total: 12)<br>TWS 0320<br>SPH 0223 | <br><br>Lab |

**KNES385H** **Motor Control and Learning**

(Perm req)

*Prerequisite: Minimum grade of C- in BSCI201, and a minimum grade of C- in MATH113 or higher. Recommended: KNES265 or PHYS121. Restriction: Must be in a major within SPHL-Kinesiology department.*

*This introductory course investigates how humans control and adapt their movements to perform and learn a variety of motor skills, ranging from activities of daily living to elite athlete performance. This course examines the underlying cognitive, sensory and motor processes of control and adaptation of human movements both at the behavioral and neurophysiological levels. Relevant applications to movement rehabilitation as well as performance optimization are employed to illustrate the concepts discussed in class. The cognitive, sensory and motor mechanisms underlying motor control are explored first and then in a motor learning context.*

Restricted to students who have been admitted in the Kinesiology Honors program. Students must pay a $75 lab fee.

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| 0101 | Rodolphe Gentili | Seats (Total: 4) |
| | TuTh 12:30pm - 1:45pm<br>Contact instructor or department for details. | TWS 0320 |

**KNES386** **Experiential Learning**

(Perm req)

*Prerequisite: Must have completed three KNES core classes. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits; and must have permission from the Kinesiology department. Additional information: Coaching days and times will vary by the community organization, and some locations may be off-campus.*

*Provides students practical experiences by applying classroom concepts and skills to real-world situations in the local community. Students will serve as volunteer coaches and mentors with a community organization focused on promoting physical activity and social-emotional learning/well being.*

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|---|---|---|---|
| 0101 | Emma Powell | Seats (Total: 4) | |
| | F 10:00am - 11:50am<br>M 2:30pm - 4:30pm | SPH 1302<br>Location: TBA | Lab |
| | *This Lab will be partnered with Girls on the Run DC, with sites TBD. Each lab site will be a local elementary school within a 15 minutes drive of the School of Public Health.* | | |
| 0102 | Emma Powell | Seats (Total: 4) | |
| | F 10:00am - 11:50am<br>Tu 2:30pm - 4:30pm | SPH 1302<br>Location: TBA | Lab |
| | *This Lab will be partnered with Girls on the Run DC, with sites TBD. Each lab site will be a local elementary school within a 15 minutes drive of the School of Public Health.* | | |

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| 0103 | Emma Powell<br>F 10:00am - 11:50am<br>W 2:30pm - 4:30pm | Seats (Total: 4)<br>SPH 1302<br>Location: TBA | Lab |
| | *This Lab will be partnered with Girls on the Run DC, with sites TBD. Each lab site will be a local elementary school within a 15 minutes drive of the School of Public Health.* | | |
| 0104 | Emma Powell<br>F 10:00am - 11:50am<br>Th 2:30pm - 4:30pm | Seats (Total: 4)<br>SPH 1302<br>Location: TBA | Lab |
| | *This Lab will be partnered with Girls on the Run DC, with sites TBD. Each lab site will be a local elementary school within a 15 minutes drive of the School of Public Health.* | | |
| 0105 | Emma Powell<br>F 10:00am - 11:50am<br>Su 11:00am - 1:00pm | Seats (Total: 10)<br>SPH 1302<br>SPH 2101 | Lab |
| | *This Lab will be partnered with Kids Enjoy Exercise Now (KEEN) of Greater DC. This lab site will be located in the SPH 2101 Volleyball Gym.* | | |

**KNES389** **Topical Investigations**

(Perm req)

*Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.*

Prerequisite: permission of instructor and department. This class does NOT fulfill a KNES Options Requirement.

**Contact department for information to register for this course.**

**KNES389F** **Topical Investigations; Sport History and Culture**

*Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.*

**Contact department for information to register for this course.**

**KNES389K** **Topical Investigations; Kinesiology Internship**

(Perm req)

*Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.*

Prerequisite: permission of instructor and department.

**Contact department for information to register for this course.**

**KNES389Y** **Topical Investigations; Application of Community Sports-Based Youth Development**

(Perm req)

*Independent study by an individual student or a group of students in special areas of knowledge not covered by regularly scheduled courses.*

Restriction: Permission of KNES department. In this hands-on team-based course, students will volunteer with a local community partner that promotes sports-based positive youth development (SBPYD). These community partners support populations that are traditionally underserved or marginalized and integrate strategies into the sport context to promote positive social outcomes. This course may have nonstandard meeting times and could require traveling off campus. For additional information and permission to enroll, please contact the Kinesiology department.

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| 0101 | Emma Powell | Seats (Total: 2) | |
| | Class time/details on ELMs<br>M 2:30pm - 4:30pm | ONLINE<br>Location: TBA | Lab |
| | *This section will be partnered with Girls on the Run DC, with sites TBD Each site will be a local elementary school within a 15-minute drive of the School of Public Health.* | | |
| 0102 | Emma Powell | Seats (Total: 2) | |
| | Class time/details on ELMs<br>Tu 2:30pm - 4:30pm | ONLINE<br>Location: TBA | Lab |
| | *This section will be partnered with Girls on the Run DC, with sites TBD Each site will be a local elementary school within a 15-minute drive of the School of Public Health.* | | |
| 0103 | Emma Powell | Seats (Total: 2) | |
| | Class time/details on ELMs<br>W 2:30pm - 4:30pm | ONLINE<br>Location: TBA | Lab |
| | *This section will be partnered with Girls on the Run DC, with sites TBD Each site will be a local elementary school within a 15-minute drive of the School of Public Health.* | | |
| 0104 | Emma Powell | Seats (Total: 2) | |
| | Class time/details on ELMs<br>Th 2:30pm - 4:30pm | ONLINE<br>Location: TBA | Lab |
| | *This section will be partnered with Girls on the Run DC, with sites TBD Each site will be a local elementary school within a 15-minute drive of the School of Public Health.* | | |
| 0105 | Emma Powell | Seats (Total: 2) | |
| | Class time/details on ELMs<br>Su 11:00am - 1:00pm | ONLINE<br>SPH 2101 | Lab |
| | *This section will be partnered with Kids Enjoy Exercise Now (KEEN). The meetings will take place in the SPH Volleyball Gym.* | | |

**KNES401 Zip Code: Prediction of Physical Activity & Health**

*Prerequisite: Minimum grade of C- in SPHL100. Restriction: Must have earned a minimum of 75 credits; and must be in a major within, SPHL-Kinesiology department.*

*An exploration of the relationship and impacts of built and other social environments on health, including physical activity, social equity, gentrification, and many others.*

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|---|---|---|
| 0101 | Jennifer Roberts<br>W 4:00pm - 6:30pm | Seats (Total: 26)<br>SPH 0303 |

**KNES401H** **Zip Code: Prediction of Physical Activity & Health**

(Perm req)

*Prerequisite: Minimum grade of C- in SPHL100. Restriction: Must have earned a minimum of 75 credits; and must be in a major within, SPHL-Kinesiology department.*

*An exploration of the relationship and impacts of built and other social environments on health, including physical activity, social equity, gentrification, and many others.*

Restricted to students who have been admitted in the Kinesiology Honors program.

| | | |
|---|---|---|
| 0101 | Jennifer Roberts<br>W 4:00pm - 6:30pm | Seats (Total: 2)<br>SPH 0303 |

**KNES402** **Biomechanics of Sport**

*Prerequisite: Minimum grade of C- in KNES300. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.*

*Mechanical determinants influencing sport techniques. A quantitative, scientific basis for sport analysis with emphasis on the application to numerous sport activities. Evaluation and quantification of the filmed performance of athletes.*

| | | |
|---|---|---|
| 0101 | Ross Miller<br>MWF 12:00pm - 12:50pm | Seats (Total: 27)<br>SPH 1301 |

**KNES402H** **Biomechanics of Sport**

(Perm req)

*Prerequisite: Minimum grade of C- in KNES300. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.*

*Mechanical determinants influencing sport techniques. A quantitative, scientific basis for sport analysis with emphasis on the application to numerous sport activities. Evaluation and quantification of the filmed performance of athletes.*

| | | |
|---|---|---|
| 0101 | Ross Miller<br>MWF 12:00pm - 12:50pm | Seats (Total: 2)<br>SPH 1301 |

**KNES405** **Principles & Techniques of Manual Muscle Testing**

(Perm req)

*Prerequisite: Minimum grade of C- in BSCI201 and BSCI202; and 1 course with a minimum grade of C- from Kinesiology core courses at the 300-level or higher. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits. Additional information: This course emphasizes hands-on application of skills. Course participation is critical.*

*It is critical for sports medicine and sport performance specialists to understand the location and inter-relationships of the structures of the body that impact human movement. Thus, the primary purpose of this course is to facilitate an in-depth, understanding of the muscles of the body. Specifically, students will learn the origins, insertions, primary and secondary functions, as well as nervous innervations of the major muscle groups of the body. In addition, students will develop palpation skills and learn to grade the function of each muscle through manual muscle testing techniques. These skills form the foundation for assessing functional movement as well as performing safe and effective manual therapy techniques. Thus, while the focus of the class will be to develop sound, introductory palpation and manual muscle testing skills, basic principles of functional movement and manual therapy will also be addressed through hands-on application as well as case study.*

| | | |
|---|---|---|
| 0101 | Joanne Klossner, Larry Plotkin | Seats (Total: 18) |
| | TuTh 11:00am - 12:15pm | SPH 0121 |

**KNES405H** **Principles & Techniques of Manual Muscle Testing**

(Perm req)

*Prerequisite: Minimum grade of C- in BSCI201 and BSCI202; and 1 course with a minimum grade of C- from Kinesiology core courses at the 300-level or higher. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits. Additional information: This course emphasizes hands-on application of skills. Course participation is critical.*

*It is critical for sports medicine and sport performance specialists to understand the location and inter-relationships of the structures of the body that impact human movement. Thus, the primary purpose of this course is to facilitate an in-depth, understanding of the muscles of the body. Specifically, students will learn the origins, insertions, primary and secondary functions, as well as nervous innervations of the major muscle groups of the body. In addition, students will develop palpation skills and learn to grade the function of each muscle through manual muscle testing techniques. These skills form the foundation for assessing functional movement as well as performing safe and effective manual therapy techniques. Thus, while the focus of the class will be to develop sound, introductory palpation and manual muscle testing skills, basic principles of functional movement and manual therapy will also be addressed through hands-on application as well as case study.*

Restricted to students who have been admitted in the Kinesiology Honors program.

| | | |
|---|---|---|
| 0101 | Joanne Klossner, Larry Plotkin | Seats (Total: 2) |
| | TuTh 11:00am - 12:15pm | SPH 0121 |

**KNES440** **Psychology of Athletic Performance**

*Prerequisite: Minimum grade of C- in KNES350. Restriction: Must have earned a minimum of 75 credits.*

*Examines the psychological factors, mechanisms, and processes in athletic performance. Utilizes a social psychological approach to focus on the study and review of individual performance in both the interpersonal and social context.*

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|---|---|---|
| 0101 | Seppo Iso-Ahola<br>M 4:00pm - 6:30pm | Seats (Total: 30)<br>SPH 1303 |

**KNES440H** **Psychology of Athletic Performance**

(Perm req)

*Prerequisite: Minimum grade of C- in KNES350. Restriction: Must have earned a minimum of 75 credits.*

*Examines the psychological factors, mechanisms, and processes in athletic performance. Utilizes a social psychological approach to focus on the study and review of individual performance in both the interpersonal and social context.*

Restricted to students who have been admitted in the Kinesiology Honors program.

| | | |
|---|---|---|
| 0101 | Seppo Iso-Ahola<br>M 4:00pm - 6:30pm | Seats (Total: 3)<br>SPH 1303 |

**KNES451** **Children and Sport: A Psychosocial Perspective**

(Perm req)

*Prerequisite: Minimum grade of C- in KNES350. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.*

*Examination of youth sports from a psychosocial perspective, including the impact of highly structured sports on young athletes and the complex social network of coaches, parents and peers.*

| | | |
|---|---|---|
| 0101 | Elizabeth Brown<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>SPH 0308 |

**KNES451H** **Children and Sport: A Psychosocial Perspective**

(Perm req)

*Prerequisite: Minimum grade of C- in KNES350. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.*

*Examination of youth sports from a psychosocial perspective, including the impact of highly structured sports on young athletes and the complex social network of coaches, parents and peers.*

Restricted to students who have been admitted in the Kinesiology Honors program.

| | | |
|---|---|---|
| 0101 | Elizabeth Brown | Seats (Total: 1) |
| | TuTh 11:00am - 12:15pm | SPH 0308 |

**KNES457** **Managing Youth Programs: Educational, Fitness and Sport**

*Prerequisite: Minimum grade of C- in KNES350 and KNES370. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.*

*An examination of the basic functions involved in managing physical education, fitness, and youth sports programs. Focus on leadership skills, organizational management, and techniques for applying learned skills in a variety of organizational settings that serve the nation's youth.*

| | | |
|---|---|---|
| 0101 | Jay Goldstein | Seats (Total: 30) |
| | TuTh 11:00am - 12:15pm | SPH 1301 |

**KNES460** **Physiology of Aging and the Impact of Physical Activity**

*Prerequisite: 1 course with a minimum grade of C- from (KNES320, KNES360). Restriction: Must be in one of the following programs (Kinesiology; Public Health Science); and must have earned a minimum of 75 credits.*

*Biology of the aging process in healthy individuals and those with chronic disease, the effects of acute exercise and exercise training on the physiological decline that occurs in humans, and the role that regular physical activity plays on enhancing the quality of life and activities of daily living in individuals.*

| | | |
|---|---|---|
| 0101 | Steven Prior | Seats (Total: 26) |
| | TuTh 12:30pm - 1:45pm | CCC 1111 |

**KNES460H** **Physiology of Aging and the Impact of Physical Activity**

(Perm req)

*Prerequisite: 1 course with a minimum grade of C- from (KNES320, KNES360). Restriction: Must be in one of the following programs (Kinesiology; Public Health Science); and must have earned a minimum of 75 credits.*

*Biology of the aging process in healthy individuals and those with chronic disease, the effects of acute exercise and exercise training on the physiological decline that occurs in humans, and the role that regular physical activity plays on enhancing the quality of life and activities of daily living in individuals.*

Restricted to students who have been admitted in the Kinesiology Honors program.

| | | |
|---|---|---|
| 0101 | Steven Prior | Seats (Total: 4) |
| | TuTh 12:30pm - 1:45pm | CCC 1111 |

**KNES465** **Physical Activity and Disease Prevention and Treatment**

*Prerequisite: 1 course with a minimum grade of C- from (KNES320, KNES360). Restriction: Must have earned a minimum of 75 credits.*

*Critically examines the scientific evidence that supports the use of physical activity to prevent and treat age-related diseases, including cardiovascular disease, diabetes, abnormal lipoprotein-lipid levels, hypertension, obesity, osteoporosis and cancer.*

| | | |
|---|---|---|
| 0101 | Sushant Ranadive<br>TuTh 11:00am - 12:15pm | Seats (Total: 25)<br>SPH 0307 |

**KNES465H** **Physical Activity and Disease Prevention and Treatment**

(Perm req)

*Prerequisite: 1 course with a minimum grade of C- from (KNES320, KNES360). Restriction: Must have earned a minimum of 75 credits.*

*Critically examines the scientific evidence that supports the use of physical activity to prevent and treat age-related diseases, including cardiovascular disease, diabetes, abnormal lipoprotein-lipid levels, hypertension, obesity, osteoporosis and cancer.*

Restricted to students who have been admitted in the Kinesiology Honors program.

| | | |
|---|---|---|
| 0101 | Sushant Ranadive<br>TuTh 11:00am - 12:15pm | Seats (Total: 3)<br>SPH 0307 |

**KNES474** **Quantitative Methods in Cognitive Motor Behavior - MATLAB**

*Prerequisite: MATH115 or equivalent; or permission of Kinesiology department. Recommended: MATH240. Restriction: Must have earned a minimum of 75 credits.*

*Includes basic computer programming, algorithm, and quantitative techniques for time-series data with an emphasis on, but not limited to, human movement. These topics will be taught using MATLAB, a programming language and environment for numerical computation, data analysis, and visualization.*

| | | |
|---|---|---|
| 0101 | Hyuk Oh<br>TuTh 3:30pm - 4:45pm | Seats (Total: 8)<br>ONLINE |

**KNES476** **Honors Thesis Proposal**

(Perm req)

*Corequisite: KNES478. Restriction: Must be a KNES Honors student; and senior standing.*

*Development of honors thesis proposal based on preliminary research and literature review. Presentation of formal proposal to the thesis committee and fellow honors students.*

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|---|---|---|
| 0101 | Tim Kiemel<br>F 10:00am - 10:50am<br>Class time/details on ELMs | Seats (Total: 20)<br>SPH 0302<br>ONLINE |

**KNES478** **Honors Seminar**

(Perm req)

*Guided discussion of research topics of current interest.*

Continuing KNES Honors Students must enroll in KNES478 every semester they are in the program.

| | | |
|---|---|---|
| 0101 | Tim Kiemel<br>F 11:00am - 11:50am | Seats (Total: 20)<br>SPH 0302 |

**KNES483** **Sport Marketing and Media**

*Prerequisite: Minimum grade of C- in KNES287. Recommended: KNES355. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.*

*Industry practices in sport marketing and media. Marketing strategies and consumer behavior in different sport contexts. Critical examination of selected social and economic issues related to the buying and selling of sport.*

| | | |
|---|---|---|
| 0101 | Stephen McDaniel<br>TuTh 3:30pm - 4:45pm | Seats (Total: 25)<br>SPH 0307 |

**KNES483H** **Sport Marketing and Media**

(Perm req)

*Prerequisite: Minimum grade of C- in KNES287. Recommended: KNES355. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.*

*Industry practices in sport marketing and media. Marketing strategies and consumer behavior in different sport contexts. Critical examination of selected social and economic issues related to the buying and selling of sport.*

Restricted to students who have been admitted in the Kinesiology Honors program.

| | | |
|---|---|---|
| 0101 | Stephen McDaniel<br>TuTh 3:30pm - 4:45pm | Seats (Total: 3)<br>SPH 0307 |

**KNES485** **Sport and Globalization**

*Prerequisite: Minimum grade of C- in KNES287. Restriction: Must be in a major within the SPHL-Kinesiology department; and must have earned a minimum of 75 credits.*

*Examination of sport culture from a global perspective; focuses on theorizing the similarities and differences between various national sporting cultures.*

| | | |
|---|---|---|
| 0101 | Ronald Mower<br>Class time/details on ELMs<br>W 1:00pm - 1:50pm | Seats (Total: 28)<br>ONLINE<br>SPH 0302 |

**KNES498** **Special Topics in Kinesiology**

*Topics of special interest in areas not covered by regularly scheduled courses.*

This class does NOT fulfill a KNES Options Requirement.

**Contact department for information to register for this course.**

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**KNES498A** **Special Topics in Kinesiology; The Kinesiological & Scientific Bases of Human Movement & Sport: Golf**

*Topics of special interest in areas not covered by regularly scheduled courses.*

Prerequisites: KNES350 with a grade of C- or better. Restriction: Must be a KNES major and must have earned at least 90 credits. Introduces students to the study of human movement and sport through the experience of learning a specific motor skill (i.e., golf) and the scientific knowledge regarding motor learning and performance. Through active personal learning and acquired scientific knowledge, students areexpected to develop critical thinking skills about motor performance. The course meets at the University Driving Range for about six weeks and then in the classroom. Students are responsible for transportation (walking or driving) to the Range. Students must pay a $40 instructional materials fee.

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|---|---|---|
| 0101 | Seppo Iso-Ahola | Seats (Total: 15) |
| | TuTh 2:00pm - 3:15pm | SPH 0305 |

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**KNES498M** **Special Topics in Kinesiology; Social Justice in Kinesiology**

*Topics of special interest in areas not covered by regularly scheduled courses.*

Prerequisites: KNES285 with a grade of C- or better and KNES287 with a grade of C- or better Restriction: Must have earned a minimum of 75 credits; and must be in a major within SPHL-Kinesiology department Using a social justice centered approach, students will broadly examine cases of injustice and inequity to consider the residual impacts of history and intersecting systems of oppression, while at the micro level of individuals, families, and communities, seek to actively engage in collaborative trust-building, participatory-action research, and selfless contributions to humanity.Students will engage with recent kinesiological scholarship and seek to apply knowledge within active learning scenarios to cultivate critical thinking, interpersonal communication,and collaborative problem-solving skills to address 21st century challenges, and contribute to a healthier, more equitable and sustainable future for all.

| | | |
|---|---|---|
| 0101 | Ronald Mower | Seats (Total: 20) |
| | W 10:00am - 12:30pm | SPH 0307 |

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**KNES498O** **Special Topics in Kinesiology; Physical Activity & the Treatment & Prevention of Obesity**

*Topics of special interest in areas not covered by regularly scheduled courses.*

Prerequisites: KNES360 with a grade of C- or better. Restriction: Must have completed a minimum of 90 credits. Students will examine and critically analyze the current research literature relevant to the diagnosis, prevalence, and impact of the current obesity epidemic in the US. Students will also study the presnt state of knowledge relative to the use of physical activity to prevent and treat obesity. This seminar format class is based on student  presentations, participation, and writing assignements.

| | | |
|---|---|---|
| 0101 | James Hagberg<br>Th 8:00am - 10:30am | Seats (Total: 20)<br>CCC 1115 |

**KNES498V** **Special Topics in Kinesiology; Clinical Biomechanics: Musculoskeletal Injury**

*Topics of special interest in areas not covered by regularly scheduled courses.*

Prerequisites: KNES300 with a grade of C- or better. Restriction: Must be a KNES major and must have earned at least 75 credits. This course will explore the mechanical bases of musculoskeletal injury to better understand the biomechanical mechanisms involved in causing the injury, the effect of injury on musculoskeletal tissue, and ultimately, based on our current knowledge, how injuries might be prevented.

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|---|---|---|
| 0101 | Jae Kun Shim<br>Class time/details on ELMs | Seats (Total: 24)<br>ONLINE |

**KNES609** **Research Issues in Kinesiology**

(Perm req)

*Issues, methodologies, and critical analyses of current research in Kinesiology.*

**Contact department for information to register for this course.**

**KNES618** **Current Readings in Exercise and Applied Physiology**

*Student-led presentations of contemporary literature in the areas of genetics, exercise science, fitness and health. Emphasis on papers describing new research findings, novel techniques, innovative methods, and emerging issues.*

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|---|---|---|
| 0101 | Steven Prior<br>M 2:00pm - 2:50pm | Seats (Total: 15)<br>SPH 2334 |

**KNES619** **Current Readings in Physical Cultural Studies**

*Student led presentations of contemporary literature in physical cultural studies and related areas. Emphasis on material describing new empirical and/or theoretical insights, innovative methods, and emerging issues.*

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|---|---|---|
| 0101 | Shannon Jette<br>Tu 10:00am - 10:50am | Seats (Total: 15)<br>SPH 2334 |

**KNES622** **Teaching Secondary Physical Education**

(Perm req)

*Restriction: Must be enrolled in PreK-12 Physical Education Master of Education program. Credit only granted for: KNES689I OR KNES622. Formerly: KNES689I.*

*Students will learn aspects of teaching secondary physical education including: characteristics of secondary school students, testing, grading, teaching lifetime activities, and effective teaching techniques using SHAPE America Standards.*

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|---|---|---|
| IH60 | Cara Grant | Seats (Total: 20) |
| | Tu 4:30pm - 7:30pm | SPH 1302 |
| | *MCERT Program Outreach Offering. Registration restricted to program participants.* | |

**KNES658** **Teaching Internship in Physical Education**

*The MCERT PE internship is an intense experience that immerses interns into the life of their assigned Secondary school. The internship experience is designed to provide our pre-service teachers with a rich opportunity to learn the craft of teaching through close observation of experts as well as practice in the planning, delivery and assessment of instruction.*

**Contact department for information to register for this course.**

**KNES660** **Psychology of Athletic Performances**

*Prerequisite: KNES350. Credit only granted for: KNES660 or KNES689Z. Formerly: KNES689Z.*

*Psychological factors, mechanisms, and processes in athletic performance. The basic approach is social psychological, according to which the focus is on individual performance in the interpersonal athletic context. Intrapersonal and interpersonal factors and their effects on athletic performance. Psychology of peak performance, choking, and errors of mental control. Analysis of the general principles and types of mental training.*

| | | |
|---|---|---|
| 0101 | Seppo Iso-Ahola | Seats (Total: 30) |
| | M 4:00pm - 6:30pm | SPH 1303 |

**KNES674** **Quantitative Methods in Cognitive Motor Behavior**

*Recommended: Proficiency in Precalculus and Linear Algebra or permission of department. Credit only granted for: KNES689R or KNES674. Formerly: KNES689R.*

*Includes basic computer programming, algorithm, and quantitative techniques for time- series data with an emphasis on, but not limited to, human movement. These topics will be taught using MATLAB, a programming language and environment for numerical computation, data processing, analysis, and visualization.*

| | | |
|---|---|---|
| 0101 | Hyuk Oh | Seats (Total: 8) |
| | TuTh 3:30pm - 4:45pm | ONLINE |

**KNES678** **Professional Seminar for Teacher Development in Physical Education**

(Perm req)

*The spring seminar course is an extension of the fall seminar course and spring internship course. It accompanies a full time undergraduate level teaching internship and is intended to support and extend students' field experience learning. The spring seminar course is designed to continue to provide students with the support they need to successfully meet the College of Education's Middle School Mathematics and Science programmatic requirements and the Maryland State Department of Education's Middle School Mathematics and Science Teacher Certification Requirements. These requirements include demonstrating mastery on all of the College of Education's Foundational Competencies (FCCs) and Performance Based Assessments (PBAs) and the national edTPA, InTASC, and AMLE Standards.*

| | | |
|---|---|---|
| IH60 | Cara Grant | Seats (Total: 20) |
| | M 4:00pm - 6:30pm | ONLINE |
| | *MCERT Program Outreach Offering. Registration restricted to program participants.* | |

**KNES689** **Special Problems in Kinesiology**

(Perm req)

*Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.*

**Contact department for information to register for this course.**

**KNES689C** **Special Problems in Kinesiology; Sport, Media, and Culture**

*Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.*

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|---|---|---|
| 0101 | David Andrews | Seats (Total: 15) |
| | M 4:00pm - 6:30pm | SPH 2334 |

**KNES689Q** **Special Problems in Kinesiology; Clinical Biomechanics: Musculoskeletal Injury**

*Master or doctoral candidates who desire to pursue special research problems under the direction of their advisor may register for 1-6 hours of credit under this number.*

| | | |
|---|---|---|
| 0101 | Jae Kun Shim | Seats (Total: 15) |
| | Tu 4:00pm - 6:30pm | SPH 0223 |

**KNES691** **Muscular Aspects of Exercise Physiology**

*Prerequisite: KNES360. Recommended: BSCI422.*

*Skeletal muscle structure and function including muscle development, excitation-contraction coupling, muscle fiber types and fatigue, muscle biochemistry, gene expression, muscle damage and regeneration. The effects of aging and exercise training on skeletal muscle.*

| | | |
|---|---|---|
| 0101 | Sarah Glancy | Seats (Total: 15) |
| | M 4:00pm - 6:30pm | SPH 0125 |

**KNES780** **Preparation for Capstone Project in Physical Activity and Public Health**

*Recommended: Quantitative/Qualitative research methods course . Restriction: Must be in the Master of Public Health program; or permission of the Kinesiology Department. Additional information: This course is also available for students in programs other than PHAO. Priority enrollment reserved for MPH in PA students.*

*Provides detailed preparation for the culminating experience in which the student applies knowledge and skills learned in the MPH program to conduct independent work on a physical activity problem under the supervision of a faculty advisor. Students will gain proficiency in conducting literature research and reviews, analyzing research methodology for appropriateness for their individual capstone projects, identifying gaps in the literature to support potential capstone topics, and preparing the capstone proposal presentation.*

| | | |
|---|---|---|
| PLK1 | Valerie Cholet | Seats (Total: 15) |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Physical Activity, Online (MPH). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**KNES789** **Advanced Projects in Kinesiology**

(Perm req)

*Advanced projects examining current problems and trends in kinesiology.*

**Contact department for information to register for this course.**

**KNES799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**KNES898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**KNES899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# KORA Korean Fall 2024

**KORA101** **Elementary Korean I**

*Prerequisite: Must have appropriate World Language Placement Test (WLPT) score; and permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must be a non-Heritage student with no background in Korean.*

*Introduction to the Korean language. Primary emphasis on oral skills, but Hangul, the Korean alphabet, will also be introduced.*

| | | |
|---|---|---|
| 0101 | Saerom Kwak<br>MWF 10:00am - 10:50am | Seats (Total: 15)<br>JMZ 3203 |
| 0201 | Seong Minne Koh<br>MWF 2:00pm - 2:50pm | Seats (Total: 15)<br>JMZ 3203 |
| 0301 | Saerom Kwak<br>MWF 12:00pm - 12:50pm | Seats (Total: 15)<br>JMZ 1224 |
| 0401 | Saerom Kwak<br>MWF 1:00pm - 1:50pm | Seats (Total: 15)<br>JMZ 3122 |

**KORA201** **Intermediate Korean I**

*Prerequisite: KORA102; or permission of instructor.*

*An intermediate-level course designed for non-Heritage students. It begins the second year of instruction in the University's two-track Korean Program.*

| | | |
|---|---|---|
| 0101 | Seong Minne Koh<br>MWF 11:00am - 11:50am | Seats (Total: 15)<br>JMZ 3203 |
| 0201 | Seong Minne Koh<br>MWF 1:00pm - 1:50pm | Seats (Total: 15)<br>JMZ 3203 |

**KORA398R** **Special Topics in Korean Studies; Cultural Fusion: Korean Pop Culture in a Globalized World**

(Perm req)

*Study of particular aspect of Korean language, literature, and/or culture. Topic and language of instruction to be announced when course is offered.*

This is a Big Ten Academic Alliance CourseShare course. The instructor is at the University of Iowa, but you enroll and receive credit for it at Maryland.

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| 0101 | Instructor: TBA<br>**Meets August 26, 2024 - December 13, 2024**<br>TuTh 12:30pm - 1:45pm | Seats (Total: 10)<br><br>ONLINE |

**KORA398T** **Special Topics in Korean Studies; Korean Dramatic Tradition: Performing Korea and Performing Korean Diaspora**

(Perm req)

*Study of particular aspect of Korean language, literature, and/or culture. Topic and language of instruction to be announced when course is offered.*

This is a Big Ten Academic Alliance CourseShare course. The instructor is at Ohio State University, but you enroll and receive credit for it at Maryland.

| | | |
|---|---|---|
| 0101 | Instructor: TBA<br>**Meets August 20, 2024 - December 4, 2024**<br>WF 2:20pm - 3:40pm | Seats (Total: 10)<br><br>ONLINE |

**KORA499** **Independent Study Korean**

(Perm req)

*Independent study under faculty supervision.*

**Contact department for information to register for this course.**

# LACS Latin American and Caribbean Studies Fall 2024

**LACS234** **Issues in Latin American and Caribbean Studies I**

*Cross-listed with: PORT234, SPAN234. Credit only granted for: LASC234, PORT234, SPAN234, or LACS234. Formerly: LASC234.*

*Interdisciplinary study of major issues in Latin America and the Caribbean, including Latin America's cultural mosaic, migration and urbanization. Democratization and the role of religions. Taught in English.*

| | | |
|---|---|---|
| 0101 | Francisco Barrenechea Cuadra<br>MW 3:30pm - 4:45pm | Seats (Total: 30)<br>SQH 1119 |
| 0102 | Chris Lewis<br>TuTh 2:00pm - 3:15pm | Seats (Total: 25)<br>JMZ 2206 |

**LACS234H** **Issues in Latin American and Caribbean Studies I**

*Cross-listed with: PORT234, SPAN234. Credit only granted for: LASC234, PORT234, SPAN234, or LACS234. Formerly: LASC234.*

*Interdisciplinary study of major issues in Latin America and the Caribbean, including Latin America's cultural mosaic, migration and urbanization. Democratization and the role of religions. Taught in English.*

| | | |
|---|---|---|
| 0101 | Francisco Barrenechea Cuadra<br>MW 3:30pm - 4:45pm | Seats (Total: 5)<br>SQH 1119 |

**LACS250** **History of Colonial Latin America**

*Cross-listed with: HIST250. Credit only granted for: LASC250, HIST250, OR LACS250. Formerly: LASC250.*

*Introductory survey of the history of Latin America from pre-Columbian Indian cultures to the beginning of the wars for independence (ca. 1810), covering cultural, political, social, and economic developments. Major themes include conquest, colonialism, indigenous culture, African slavery, religion, race and ethnicity, and gender ideologies.*

| | | |
|---|---|---|
| 0101 | David Sartorius | Seats (Total: 40) |
| | TuTh 3:30pm - 4:45pm | SQH 1105 |

**LACS348P** **Special Topics in Latin American and Caribbean Studies; Caribbean Women**

*Topics to be announced when offered.*

Cross-listed with WGSS360 and AASP361. Credit only granted for WGSS360, AASP361, or LACS348P. An interdisciplinary analysis of the lives and experiences of women across the Caribbean region, through an examination of their roles in individual, national, social and cultural formations. Special emphasis on contemporary women's issues and organizations.

| | | |
|---|---|---|
| 0101 | Michelle Rowley | Seats (Total: 35) |
| | MW 10:00am - 11:15am | SQH 1105 |

**LACS448Y** **Special Topics in Latin American and Caribbean Studies; Tropical Dreams: Nature and Art in Brazil**

*Intensive study of a selected topic related to Latin American and Caribbean Studies.*

Cross-listed with PORT409A, SPAN408O, and SPAN609A. Credit only granted for PORT409A, LACS448Y, SPAN408O, or SPAN609A. Interdisciplinary examination of tropicality and nature tropes that have shaped current cultural, political, and environmental debates in Brazil. Taught in English.

| | | |
|---|---|---|
| 0101 | Thayse Leal Lima | Seats (Total: 30) |
| | TuTh 2:00pm - 3:15pm | JMZ 2123 |

**LACS458** **Senior Capstone Course in Latin American and Caribbean Studies**

*Capstone course for advanced students in the Latin American and Caribbean Studies Certificate Program or other students with appropriate preparation. Interdisciplinary topics will vary each semester.*

| | | |
|---|---|---|
| 0101 | Juan Diaz | Seats (Total: 10) |
| | TuTh 9:30am - 10:45am | HJP 4120 |

**LACS486** **Internship in Latin American/Caribbean Studies**

(Perm req)

*Prerequisite: Student must have completed at least two LACS courses, one of which must be a required/core course (LACS/SPAN234, LACS/SPAN235, LACS/HIST250, or LACS/HIST251); and permission of Latin American Studies Center required. Restriction: Minimum cumulative GPA of 2.5; and must have earned a minimum of 60 credits. Credit only granted for: LASC486 OR LACS486. Formerly: LASC486. Additional information: The course is primarily intended for students seeking the Certificate in Latin American and Caribbean Studies, but exceptions will be considered for students with educational or career interests which lie in this area. Student internships must be approved by the Director, and students must secure an appropriate faculty mentor for the internship course. An internship course will be approved only if a faculty supervisor is available.*

*Internship experience with an organization that works with or studies Latin American and/or the Caribbean. This is an experiential learning course that provides semester-long training that enriches the student's academic field of study and the LACS Certificate. Students submit a final written report of their experience, including critical analysis of the institutional relevance to their major field of study and to Latin American and Caribbean Studies. Students will also be asked to give an oral presentation.*

**Contact department for information to register for this course.**

**LACS609** **Colloquium in Latin American and Caribbean Studies**

*The colloquium is one of three core courses for the Graduate Certificate in Latin American and Caribbean Studies. Providing 3 credits over the course of multiple semesters (1-2 credits per semester), it ensures an ongoing intellectual community among students, faculty, and guest scholars. For group discussions, the Colloquium meets four times per semester. Additionally, students attend Latin American and Caribbean activities and events in order to discuss and theorize about the region and its diaspora from informed perspectives. Each semester's colloquium provides 1-2 credits toward the Graduate Certificate.*

The Colloquium will ensure an ongoing intellectual community among students, faculty, and guest scholars. The director of the Center and students will meet to discuss readings and occasional presentations by aguest speaker. Students will also present their work for feedback. With the assistance of the Director, students are invited to play an essential role in the planning and structuring of the Colloquium. This themed colloquium (the theme will change each year) will meet four times per semester

| | | |
|---|---|---|
| 0101 | Ryan Long | Seats (Total: 18) |
| | F 12:00pm - 1:30pm | Location: TBA |
| | Contact instructor or department for details. | |

**LACS688** **Experiential Learning in Latin American and Caribbean Studies**

*Offers an opportunity for practical experience of Latin American and Caribbean organizations, to supplement a methodological focus. Credits may be fulfilled with internships, an applied research assistantship, or any program outside the University that focuses on the experiences of Latin America, the Caribbean, and related diasporas. Examples of experiential learning may include internships at organizations such as the Pan American Health Organization, the World Bank, the Washington Office on Latin America (WOLA), or Casa de Maryland.*

| | | |
|---|---|---|
| 0101 | Ryan Long | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**LACS689** **Research Praxis in Latin American and Caribbean Studies**

(Perm req)

*The concentration in research praxis is intended primarily to serve students who are interested in academic research and teaching in Latin American and Caribbean studies by exposing them to a research experience supervised by an affiliate faculty member in Latin American and Caribbean studies. This might be a 3-credit intensive research seminar or independent studies tutorial involving a major research project or a 1-3 credit research assistantship in Latin American and Caribbean studies.*

| | | |
|---|---|---|
| 0101 | Ryan Long | Seats (Total: 5) |
| | Contact instructor or department for details. | |

# LARC Landscape Architecture Fall 2024

**LARC121** **Computer Visualization in Design**

*Students are provided with the opportunity to 1) explore basic design principles and practice, 2) explore and apply computer concepts and principles, 3) learn and apply basic computer tools used in landscape architecture and allied disciplines, and 4) demonstrate competency in design vocabulary and computer applications through demonstrated deliverables used in the built environment design fields.*

| | | | |
|---|---|---|---|
| FC01 | Jonathan Gemmell | Seats (Total: 16) | |
| | Tu 7:30pm - 8:45pm<br>Th 7:30pm - 8:45pm | PLS 2137<br>ONLINE | |
| | *Restricted to students in Freshmen Connection.* | | |

**LARC151** **Urban Agriculture: Designing and Assessing Edible Landscapes**

*Students will examine the growing development of urban agriculture and edible landscapes. Urban agriculture has seen a recent growth and interest in cities across the globe. From Paris to New York, from Baltimore to Detroit, urban agriculture is an emerging land use to address a variety of needs. Redevelopment, food deserts, community engagement and environmental justice are just some of the issues and topics that are connected to the recent growth of urban agriculture. This course will take a critical examination of urban agriculture's contribution to the food system, its input and outputs in the urban landscape, and the planning and design of urban agriculture and edible landscapes.*

| | | | |
|---|---|---|---|
| 0101 | Kelly Fleming | Seats (Total: 20) | |
| | MW 11:00am - 11:50am<br>M 12:00pm - 12:50pm | ESJ 2204<br>PLS 1164 | Discussion |
| 0102 | Kelly Fleming | Seats (Total: 20) | |
| | MW 11:00am - 11:50am<br>M 1:00pm - 1:50pm | ESJ 2204<br>PLS 1164 | Discussion |

| | | | |
|---|---|---|---|
| 0103 | Kelly Fleming<br>MW 11:00am - 11:50am<br>W 12:00pm - 12:50pm | Seats (Total: 20)<br>ESJ 2204<br>PLS 1164 | Discussion |
| 0104 | Kelly Fleming<br>MW 11:00am - 11:50am<br>W 1:00pm - 1:50pm | Seats (Total: 20)<br>ESJ 2204<br>PLS 1164 | Discussion |
| 0105 | Kelly Fleming<br>MW 11:00am - 11:50am<br>M 3:00pm - 3:50pm | Seats (Total: 20)<br>ESJ 2204<br>PLS 1119 | Discussion |
| 0106 | Kelly Fleming<br>MW 11:00am - 11:50am<br>M 4:00pm - 4:50pm | Seats (Total: 20)<br>ESJ 2204<br>PLS 1119 | Discussion |
| FC01 | Sherry Russell<br>W 7:30pm - 8:45pm<br>M 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 16)<br>PLS 1130<br>ONLINE | |

**LARC160** **Introduction to Landscape Architecture and Environmental Design**

*History, theory, philosophy and current practice of the profession of landscape architecture. Explores the interactive relationship between humans and their environment by examining people's perceptions of and changing attitude towards the landscape, as well as, an examination of how these are related to ecological and cultural influences. Topics include urban, ecological, community and creative design.*

| | | | |
|---|---|---|---|
| 0101 | Deni Ruggeri<br>MW 12:00pm - 12:50pm<br>M 2:00pm - 2:50pm | Seats (Total: 20)<br>ESJ 2204<br>PLS 1115 | Discussion |
| 0102 | Deni Ruggeri<br>MW 12:00pm - 12:50pm<br>M 3:00pm - 3:50pm | Seats (Total: 20)<br>ESJ 2204<br>PLS 1115 | Discussion |
| 0103 | Deni Ruggeri<br>MW 12:00pm - 12:50pm<br>M 3:00pm - 3:50pm | Seats (Total: 20)<br>ESJ 2204<br>PLS 1146 | Discussion |
| 0104 | Deni Ruggeri<br>MW 12:00pm - 12:50pm<br>W 2:00pm - 2:50pm | Seats (Total: 20)<br>ESJ 2204<br>PLS 1115 | Discussion |

| | | | |
|---|---|---|---|
| 0105 | Deni Ruggeri<br>MW 12:00pm - 12:50pm<br>W 3:00pm - 3:50pm | Seats (Total: 20)<br>ESJ 2204<br>PLS 1115 | <br><br>Discussion |
| 0106 | Deni Ruggeri<br>MW 12:00pm - 12:50pm<br>M 4:00pm - 4:50pm | Seats (Total: 20)<br>ESJ 2204<br>PLS 1146 | <br><br>Discussion |
| FC01 | Colleen Vacelet<br>MW 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 16)<br>PLS 1130 | |

**LARC220** **Landscape Visualization II**

(Perm req)

*Corequisite: LARC230. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department; and sophomore standing or higher; and must be in Landscape Architecture program. Credit only granted for: LARC489R or LARC220. Formerly: LARC489R.*

*Basic techniques and application of various media for graphic communication associated with landscape architecture.*

| | | | |
|---|---|---|---|
| 0101 | Sherry Russell<br>TuTh 11:00am - 12:15pm<br>TuTh 12:30pm - 1:45pm | Seats (Total: 15)<br>PLS 2152<br>PLS 2152 | <br><br>Lab |

**LARC230** **Design Fundamentals Studio**

(Perm req)

*Prerequisite: Must have completed or be concurrently enrolled in LARC265 and LARC266. Corequisite: LARC220. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department; and sophomore standing or higher; and must be in Landscape Architecture program. Credit only granted for: LARC141 or LARC230. Formerly: LARC141.*

*Introduction to the fundamentals of basic design focusing on creative problem solving associated with landscape architecture. Here you will explore design with different geometries, organizing principles, concept development, spatial definition, land formation, structures and plants. Emphasis will be given on how to represent design ideas using measured drafting techniques and presentation board organization. A series of foundational exercises will culminate in the redesign of a small public space.*

Students must pay a $300.00 Landscape Architecture Fee.

| | | | |
|---|---|---|---|
| 0101 | Christopher Ellis<br>MW 1:00pm - 1:50pm<br>MW 2:00pm - 4:50pm | Seats (Total: 15)<br>PLS 2152<br>PLS 2152 | <br><br>Lab |

**LARC265** **Site Analysis and Ecological Principles**

(Perm req)

*Prerequisite: LARC141. Corequisite: LARC240 and LARC221. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department; and sophomore standing or higher; and must be in Landscape Architecture program. Credit only granted for: LARC265 or ARCH460.*

*Principles and methods of site analysis with an emphasis on the application of ecological principles in landscape architecture, architecture and planning.*

| | | | |
|---|---|---|---|
| 0101 | David Myers | Seats (Total: 32) | |
| | MWF 9:00am - 9:50am | PLS 1113 | |

**LARC266** **Site and Landscape Ecology Field Studies**

*Prerequisite: Must have completed or be concurrently enrolled in LARC230 or LARC640. Corequisite: LARC265. Restriction: Sophomore standing or higher; and must be in Landscape Architecture program. Additional information: This course requires field trips.*

*Field Excursions that are essential to apply theory and principles explored in the LARC265 to real world environments.*

| | | | |
|---|---|---|---|
| 0101 | David Myers | Seats (Total: 32) | |
| | Contact instructor or department for details. | | |

**LARC320** **Principles of Site Engineering**

(Perm req)

*Prerequisite: LARC221. Corequisite: LARC340. Restriction: Must be in Landscape Architecture program; and junior standing or higher.*

*The study and application of landscape construction principles as applied to grading, drainage, site layout, storm water management, and vehicular and pedestrian circulation.*

| | | | |
|---|---|---|---|
| 0101 | Shihua Wang | Seats (Total: 20) | |
| | Th 8:00am - 10:45am | PLS 2150 | |
| | Tu 9:30am - 10:45am | PLS 2150 | Lab |

**LARC340** **Site Planning and Design Studio**

(Perm req)

*Prerequisite: LARC220, LARC265, LARC266, and LARC230. Corequisite: LARC411 and LARC221. Restriction: Must be in Landscape Architecture program; and sophomore standing or higher. Credit only granted for: LARC340 or LARC231. Formerly: LARC340.*

*An examination of the influence of landscape character and site features (natural and cultural) on landscape architecture, architecture and planning through application in the studio setting.*

Students must pay a $300.00 Landscape Architecture Fee.

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|---|---|---|---|
| 0101 | Byoung-Suk Kweon | Seats (Total: 15) | |
| | MW 1:00pm - 1:50pm | PLS 2150 | |
| | MW 2:00pm - 4:50pm | PLS 2150 | Lab |

**LARC389** **Internship in Landscape Architecture**

(Perm req)

*A supervised internship where students earn credit for work experience related to their career goals. Each student must keep a work log, work on a special project, and produce a report related to this project. An evaluation from the external supervisor of the project is required. Participation requires application to the internship advisor in the preceding semester.*

Restriction: Permission of department. The deadline to request permission to sign-up for the course is 6/16/2023. See Dr. Mark Carroll for more information. There will be two required real-time sessions, time to be determined. A supervised internship where students earn credit for work experience related to their career goals. Each student must keep a work log, work on a special project, and produce a report related to this project. An evaluation from the external supervisor of the project is required. Participation requires application to the internship advisor in the preceding semester.

| | | |
|---|---|---|
| 0101 | Mark Carroll | Seats (Total: 15) |
| | **Meets July 3, 2024 - November 6, 2024** | |
| | Class time/details on ELMs | ONLINE |

**LARC420** **Professional Practice**

(Perm req)

*Prerequisite: LARC321.  Restriction: Must be in Landscape Architecture program.*

*An introduction to and comparative study of the professional concerns of design firms. Focus on planning, legal, ethical, marketing and management considerations of interdisciplinary practices.*

| | | |
|---|---|---|
| 0101 | Jennifer Janis | Seats (Total: 30) |
| | Tu 9:30am - 12:15pm | PLS 1117 |

**LARC440** **Urban Design Studio**

(Perm req)

*Prerequisite: LARC321; and LARC340; and LARC341. Restriction: Must be in Landscape Architecture program.*

*The landscape architect's role within the interdisciplinary urban design process, focusing on urban site design issues. Pedestrian friendly site design and the future of sustainable development will be studied.*

Students must pay a $300.00 Landscape Architecture Fee.

| | | | |
|---|---|---|---|
| 0101 | Jack Sullivan | Seats (Total: 15) | |
| | MW 1:00pm - 1:50pm | PLS 2148 | |
| | MW 2:00pm - 4:50pm | PLS 2148 | Lab |

**LARC452** **Green Infrastructure and Community Greening**

*Prerequisite: PLSC110 and PLSC111; or (PLSC112 and PLSC113); or permission of instructor. Restriction: Junior standing or higher. Credit only granted for: LARC489G or LARC452. Formerly: LARC489G.*

*A critical look and exploration of green infrastructure (GI) elements in the built environment in contributing to ecosystems services and the sustainability of the built environment. The course explores the science, issues, challenges, and the policy, planning and design solutions offered by green infrastructure.*

| | | | |
|---|---|---|---|
| 0101 | David Myers | Seats (Total: 22) | |
| | W 10:00am - 10:50am | PLS 1113 | |
| | F 10:00am - 11:50am | PLS 1113 | |
| | *for LARC majors only or permission of instructor* | | |

**LARC470** **Landscape Architecture Seminar**

(Perm req)

*Prerequisite: LARC321; and LARC341. Corequisite: LARC440. Restriction: Senior standing; and must be in Landscape Architecture program.*

*A combination of self-directed study, seminar, and lecture formats. An introduction to aspects of research methods, critical analysis, and proposal writing with a focus on urban and community design.*

| | | | |
|---|---|---|---|
| 0101 | Caren Yglesias | Seats (Total: 13) | |
| | M 9:00am - 11:50am | PLS 1162 | |

**LARC499** **Independent Studies in Landscape Architecture**

(Perm req)

*Independent studies in landscape architecture including field, studio or library research under the direction of a faculty member.*

**Contact department for information to register for this course.**

**LARC620** **Graphic Tools for Landscape Representation**

(Perm req)

*Corequisite: LARC640. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.*

*This course integrates digital and analog methods of communication and provides an introduction to computer tools and techniques commonly used in landscape architecture practice. Non-drafting computer tools will be used to orient basic digital image capture, manipulation, and presentation formatting. Also includes techniques and application of various media for graphic communication associated with landscape architecture.*

| | | | |
|---|---|---|---|
| 0101 | Christopher Ellis | Seats (Total: 10) | |
| | TuTh 8:00am - 9:15am | PLS 1142 | |
| | TuTh 9:30am - 10:45am | PLS 1142 | Lab |

**LARC640** **Graduate Studio I**

(Perm req)

*Corequisite: LARC620. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.*

*Principles and techniques of design as applied to shaping the landscape; developing concepts in visual thinking, environmental awareness, and design intervention through studio exercises and projects.*

*Students must pay a $300.00 Graduate Studio Fee.*

| | | | |
|---|---|---|---|
| 0101 | Naomi Sachs | Seats (Total: 10) | |
| | TuTh 1:00pm - 1:50pm | PLS 1142 | |
| | TuTh 2:00pm - 4:50pm | PLS 1142 | Lab |

**LARC642** **Graduate Studio III**

(Perm req)

*Prerequisite: LARC641. Corequisite: LARC670. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.*

*A focus on the interaction of landscape science (hydrology, geology, etc.) with the necessities and mechanisms of human settlements (transportation, economics, etc.) emphasizing innovative and forward thinking solutions to urbanization and ecological problems. It will apply this knowledge to landscape analysis, recreational planning and design, and community development, emphasizing resource management, spatial organization, landscape character, and the physical and social structure of community services. This course will be required for both Trach 1 and Track 2 students.*

Students must pay a $300.00 Graduate Studio Fee.

| | | | |
|---|---|---|---|
| 0101 | Kelly Fleming | Seats (Total: 10) | |
| | TuTh 1:00pm - 1:50pm | PLS 2154 | |
| | TuTh 2:00pm - 4:50pm | PLS 2154 | Lab |

**LARC670** **Landscape Architecture Theory and Criticism**

(Perm req)

*Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.*

*Review and analysis of the body of literature concerning landscape architecture and relationships between humans and both natural and designed environments. Topics may include: rationalism, ethics, aesthetics, social and economic values, postmodernism, feminist, multiculturalism, ecological determinism, preservation/conservation, and sustainability and ecological design. Each week students will lead a debate and discussion on a theoretical issue based on the assigned readings for that week.*

| | | | |
|---|---|---|---|
| 0101 | Caren Yglesias | Seats (Total: 10) | |
| | M 9:00am - 11:50am | PLS 1162 | |

**LARC699** **Independent Studies in Landscape and Architecture**

(Perm req)

*Individual Instruction course.*

**Contact department for information to register for this course.**

**LARC721** **Landscape Construction Methods and Materials**

(Perm req)

*Prerequisite: LARC720. Restriction: Permission of AGNR-Plant Science & Landscape Architecture department.*

*Basic methods of constructing landscapes and manipulating the appropriate plant and inorganic materials for the creation of ecologically sustainable environments for human use. An examination of the use, properties, and detailing of materials used in landscape construction.*

| | | | |
|---|---|---|---|
| 0101 | Jennifer Janis | Seats (Total: 10) | |
| | W 8:00am - 9:15am | PLS 2154 | |
| | W 9:30am - 10:45am | PLS 2154 | |

**LARC748** **Advanced Special Topics Studio**

*Advanced special topics comprehensive landscape architecture studio-exploration will focus on cultural, behavioral and ecological issues in the physical planning and design of urban landscapes.*

Students must pay a $300.00 Graduate Studio Fee.

| | | | |
|---|---|---|---|
| 0101 | Deni Ruggeri | Seats (Total: 10) | |
| | TuTh 1:00pm - 1:50pm | PLS 2156 | |
| | TuTh 2:00pm - 4:50pm | PLS 2156 | Lab |

**LARC799** **Master's Thesis Research**

(Perm req)

*Development of a terminal thesis on a problem in landscape architecture, designed to demonstrate comprehensive skills and knowledge achieved in the graduate program. The subject will be selected in consultation with an advisor and periodically reviewed with a committee headed by the advisor.*

Students must pay a $300.00 Graduate Studio Fee.

**Contact department for information to register for this course.**

# LATN Latin Fall 2024

**LATN101** **Elementary Latin I**

*Additional information: A student who has two units of Latin in high school may register for LATN101 for the purposes of review, but ordinarily not for credit.*

| | | |
|---|---|---|
| 0101 | Eugenia Lao | Seats (Total: 20) |
| | M 11:00am - 11:50am | WDS 1102 |
| | W 11:00am - 12:50pm | KEY 0120 |
| | F 11:00am - 11:50am | ONLINE |

**LATN201** **Intermediate Latin**

*Prerequisite: Must have completed LATN102 at University of Maryland, College Park; or permission of ARHU-Classics department. Formerly: LATN203.*

| | | |
|---|---|---|
| 0101 | Gregory Bucher | Seats (Total: 15) |
| | MWF 10:00am - 10:50am | ONLINE |
| | F 9:00am - 9:50am | ONLINE |

**LATN304** **Cicero and Sallust**

*Prerequisite: LATN201; or students who have taken courses with comparable content may contact the department.*

*Selected speeches of Cicero and selections from the historian Sallust. Rhetorical, social and political context. Readings are in Latin.*

| | | |
|---|---|---|
| 0101 | Eric Adler | Seats (Total: 10) |
| | TuTh 2:00pm - 3:15pm | MMH 1218 |

**LATN472** **Historical Development of the Latin Language**

*Credit only granted for: LATN472 or LING431.*

*An analysis of the development of the Latin language from archaic times to the Middle Ages.*

| | | |
|---|---|---|
| 0101 | Katherine Wasdin | Seats (Total: 7) |
| | Tu 5:00pm - 7:40pm | MMH 1218 |

**LATN488I** **Latin Readings; Latin Prose Composition**

*The reading of one or more selected Latin authors from antiquity through the Renaissance. Reports.*

An intensive review of Latin syntax through extensive exercises in compsition Prerequisite: Latin201 or equivalent.

| | | |
|---|---|---|
| 0101 | Gregory Bucher<br>MW 2:00pm - 3:15pm | Seats (Total: 5)<br>ONLINE |

**LATN499** **Independent Study in Latin Language and Literature**

(Perm req)

**Contact department for information to register for this course.**

**LATN672** **Historical Development of the Latin Language**

*An analysis of the development of the Latin language from the archaic period to the Middle Ages.*

| | | |
|---|---|---|
| 0101 | Katherine Wasdin<br>Tu 5:00pm - 7:40pm | Seats (Total: 7)<br>MMH 1218 |

**LATN688I** **Special Topics in Latin Literature; Latin Prose Composition**

| | | |
|---|---|---|
| 0101 | Gregory Bucher<br>MW 2:00pm - 3:15pm | Seats (Total: 7)<br>ONLINE |

**LATN699** **Independent Studies in Latin Literature**

(Perm req)

**Contact department for information to register for this course.**

**LATN799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

# LBSC Library Science Fall 2024

**LBSC602** **Serving Information Needs**

*Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC602, or both LBSC601 and LBSC650.*

*An introduction to the skills necessary to interact directly with individuals through the exploration of user behavior theory, strategies to locate and evaluate information from print and electronic resources, and policies and procedures to ensure that all individuals can become information literate.*

| | | |
|---|---|---|
| IM01 | Angela Rodgers-Koukoui<br>Class time/details on ELMs | Seats (Total: 40)<br>ONLINE |

| | | |
|---|---|---|
| IM02 | Jieun Yeon<br>Tu 6:00pm - 8:45pm | Seats (Total: 40)<br>HBK 2119 |

**LBSC631** **Achieving Organizational Excellence**

*Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC631 or LBSC635.*

*Overview of the principles, practices, and techniques required for effective leadership and management. The innovative strategies, management responsibilities, and skills needed to achieve and sustain high organizational performance in information-based cultural institutions.*

| | | |
|---|---|---|
| IM01 | Kibbi Henderson<br>Class time/details on ELMs | Seats (Total: 30)<br>ONLINE |
| IM02 | Ryan O'Grady<br>Th 6:00pm - 8:45pm | Seats (Total: 30)<br>HBK 0302H |

**LBSC644** **Collection Development**

*Prerequisite: LBSC602; or permission of instructor. Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC 644 or LBSC 708G. Formerly: LBSC 708G.*

*Activities through which library collections are systematically developed and managed are explored, especially the formulation and implementation of written collection development policies. Other specific topics include identification of user needs; collection evaluation; fund allocation among competing departments, subjects, and/or media; selection methods; intellectual freedom; storage alternatives; and cooperative collection development.*

| | | |
|---|---|---|
| IM01 | Morgan Adle<br>Class time/details on ELMs | Seats (Total: 30)<br>ONLINE |

**LBSC645** **Literature and Materials for Children**

*Restriction: Permission of INFO-College of Information Studies.*

*Survey of literature and other materials for children and youth. Criteria for evaluating and using such materials as they relate to the needs, interests, reading abilities, and other capabilities of young readers.*

| | | |
|---|---|---|
| IM01 | Jennifer Sturge<br>Class time/details on ELMs | Seats (Total: 30)<br>ONLINE |

**LBSC671** **The Lifecycle of Information**

*Restriction: Permission of INFO-College of Information Studies. Credit only granted for: LBSC671, or LBSC670 and LBSC690.*

*Introduction to methods used to create, acquire, organize, manage and preserve information. Information systems currently used to support digital and physical libraries, databases, and repositories will be explored.*

| | | |
|---|---|---|
| IM01 | Kathy Weaver<br>Class time/details on ELMs | Seats (Total: 30)<br>ONLINE |
| IM02 | Jessica Grimmer<br>W 6:00pm - 8:45pm | Seats (Total: 40)<br>HBK 0115 |

**LBSC702** **User Instruction**

*Prerequisite: LBSC602; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.*

*Critical analysis of the rationale, content, and processes of user instruction in library and information settings.*

| | | |
|---|---|---|
| IM01 | Kathy Weaver<br>Class time/details on ELMs | Seats (Total: 30)<br>ONLINE |

**LBSC707** **Field Study in Information Service**

*Prerequisite: LBSC602, LBSC671, and LBSC631; and must have completed an additional 9 credits. Or permission of instructor. Restriction: Must be in Library and Information Science (Master's) program; and permission of INFO-College of Information Studies.*

*Supervised internship experience in a library, archive, museum, or other information organization.*

| | | |
|---|---|---|
| IM01 | Abbie Basile<br>Class time/details on ELMs | Seats (Total: 30)<br>ONLINE |

**LBSC708Y** **Special Topics in Library and Information Science; Community Archives**

*A special topics course with content determined by individual instructors. For questions about the content of the course contact the College of Information Studies.*

| | | |
|---|---|---|
| IM01 | Eric Hung<br>W 2:00pm - 4:45pm | Seats (Total: 30)<br>PLS 1113 |

**LBSC723** **Advocacy and Support for Information Services**

*Restriction: Permission of INFO-College of Information Studies.*

*Role and influence of government, foundations, associations, and other organizations in supporting and setting the agenda for information services of all types. Role of information professionals in demonstrating advocacy, fund-raising, public relations, lobbying, and seeking external support.*

| | | |
|---|---|---|
| IM01 | Abbie Basile | Seats (Total: 30) |
| | Class time/details on ELMs | ONLINE |

**LBSC724** **Public Library Seminar**

*Prerequisite: Permission of INFO-College of Information Studies.*

*Organization, support, and service patterns of public libraries. The public library in national, state, and local contexts.*

| | | |
|---|---|---|
| IM01 | Ryan O'Grady | Seats (Total: 30) |
| | M 2:00pm - 4:45pm | HBK 0115 |

**LBSC731** **Special Collections**

*Prerequisite: LBSC602; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.*

*Management of special collections, whose holdings may include manuscripts (particularly personal papers), non-textual materials, graphical materials, and rare books, with analysis of the custodial and management functions associated with special collections.*

| | | |
|---|---|---|
| IM01 | Jessica Grimmer, Victoria Van Hyning | Seats (Total: 30) |
| | M 2:00pm - 4:45pm | HBK 0105 |

**LBSC742** **Collaborative Instructional Design and Evaluation**

*Prerequisite: INST650; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.*

*School librarians' collaborative role in instruction. Systematic design, development, and evaluation of instructional strategies and products for learning.*

| | | |
|---|---|---|
| IM01 | Kevin Washburn | Seats (Total: 30) |
| | Class time/details on ELMs | ONLINE |

**LBSC749** **Internship in School Libraries**

*Opportunities to observe and participate in the operation of school libraries at the elementary and secondary levels under the supervision of certified school librarians. Required of all School Library Media certification candidates.*

| | | |
|---|---|---|
| IM01 | Bridgette Comanda | Seats (Total: 30) |
| | Class time/details on ELMs | ONLINE |

**LBSC751** **Research and Teaching Fellowship II**

*Restriction: Permission of INFO-College of Information Studies.*

*Part of the Research and Teaching Fellowship program, a three-semester teacher training and professional development program in academic libraries. Fellows will complete weekly readings, complete weekly teaching reflections, and begin preparations for the academic job search.*

| | | |
|---|---|---|
| IM01 | Amber Pierdinock-Weed, Benjamin Shaw<br>Tu 11:00am - 11:50am | Seats (Total: 7)<br>MCK 4100A |

**LBSC770** **Metadata and Tools for Information Professionals**

*Prerequisite: LBSC671; or permission of instructor. Restriction: Permission of INFO-College of Information Studies.*

*Principles, standards, and practices of information representation to facilitate accessing needed information in digital bibliographic environments. Includes exposure to Metadata, XML, RDA/AACR2R, DTDs, MARC, Dublin Core, MODS, ISBN and ISSN, FRBR, FRAD, Classification systems, and Controlled Vocabularies such as LCSH, SEARS, NLM, Getty and ERIC Thesauri, and others.*

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|---|---|---|
| IM01 | Michelle McDaniel<br>W 6:00pm - 8:45pm | Seats (Total: 30)<br>HBK 2119 |

# LEAD Leadership Education and Development Fall 2024

**LEAD217** **Introduction to Leadership**

*Restriction: Freshman standing; or sophomore standing. Credit only granted for: LEAD217 or HESI217. Formerly: HESI217.*

*Surveys the study and practice of leadership and provides students with a variety of experiences to wrestle with large leadership questions. What is leadership? Who can be a leader? How is leadership an important aspect of understanding self and others? Students will explore and respond to these questions through a variety of leadership theories and models, self-assessments, critical reflection, active-learning, group projects, and research. The course will introduce students to critical theory and critical perspectives of leadership to help students broaden their perspectives on leadership and develop more complex thought and practice of leadership.*

Students must pay a $32 materials fee. Contact leadershipstudies@umd.edu with questions.

| | | |
|---|---|---|
| 0101 | Anastasia Lavrenyuk<br>MW 11:00am - 12:15pm | Seats (Total: 25)<br>ATL 1434 |
| 0201 | Noel Kuriakos<br>TuTh 12:30pm - 1:45pm | Seats (Total: 25)<br>ESJ B0320 |
| FC01 | Anastasia Lavrenyuk<br>MW 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 20)<br>KNI 1103 |

**LEAD305** **Leadership and Ethics**

*Encourages students to explore the ethical demands of leadership. Through the examination of moral and ethical frameworks, students will develop their efficacy in analyzing multiple perspectives, decision-making, and navigating complexity. This course focuses on values-based leadership and one's responsibilities and commitments in the context of leadership for the common good and for purposeful change. The course assists students in identifying and examining ethical leadership as it relates to values, authenticity, context, controversy, and dilemmas.*

| | | |
|---|---|---|
| 0101 | Kamrie Risku | Seats (Total: 20) |
| | M 3:00pm - 5:45pm | ASY 3217 |

**LEAD315** **Leadership in Groups and Organizations**

(Perm req)

*Prerequisite: LEAD217 or HESI217. Credit only granted for: LEAD315 or HESI315. Formerly: HESI315.*

*Assists students in acquiring and integrating leadership knowledge within group and organizational contexts. Individual (self), relational (others), and contextual (context) influences on leadership will be examined using theories and frameworks that will help students learn to navigate complex organizational environments and practice leadership that is process-based and relationship-oriented. Through hands-on activities, personal exploration, and critical analysis of leadership within groups and organizations, students will gain greater insight into the historical, cultural, and environmental elements of leadership.*

Email leadershipstudies@umd.edu for permission to enroll. Students must pay a $15 materials fee.

| | | |
|---|---|---|
| 0501 | Noel Kuriakos | Seats (Total: 20) |
| | W 10:00am - 12:45pm | ESJ 1309 |

**LEAD320** **Social Action Seminar**

*Prerequisite: HESI217 or LEAD 217; and HESI315 or LEAD315. Restriction: Must be in the Leadership Studies Minor or Leadership Studies Certificate program. Credit only granted for: HESI320 or LEAD320. Formerly: HESI320. Additional information: May fulfill a requirement for the Leadership Studies Certificate only if taken sequentially with LEAD321 course.*

*The purpose of the Social Action Sequence (LEAD 320 & LEAD 321) is to examine the connections between leadership and social change, and learn how our own leadership knowledge and practice can be used to advance progress toward more just and equitable communities. In LEAD 320 (2-credits), students will have the opportunity to conduct a semester-long project to increase their knowledge and understanding of a social issue of their interest, and design resources and an action plan for engaging in work related to this social issue in their own communities.*

| | | |
|---|---|---|
| 0101 | Brittany Devies | Seats (Total: 10) |
| | Class time/details on ELMs | ONLINE |

# LGBT Lesbian Gay Bisexual Transgender Studies — Fall 2024

**LGBT200** **Introduction to Lesbian, Gay, Bisexual, and Transgender Studies**

*Credit only granted for: LGBT200.*

*An interdisciplinary study of the historical and social contexts of personal, cultural and political aspects of LGBT life. Sources from a variety of fields, such as anthropology, history, psychology, sociology, and women's studies, focusing on writings by and about LGBT people.*

| | | | |
|---|---|---|---|
| 0101 | Alexis Lothian<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 20)<br>TWS 0320<br>SQH 2120 | <br><br>Discussion |
| 0102 | Alexis Lothian<br>MW 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 20)<br>TWS 0320<br>EDU 1315 | <br><br>Discussion |
| 0103 | Alexis Lothian<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 20)<br>TWS 0320<br>EDU 3315 | <br><br>Discussion |

**LGBT265** **LGBTQ+ Literatures and Media**

*Restriction: Must not have completed LGBT265. Cross-listed with: ENGL265. Credit only granted for: ENGL265 or LGBT265.*

*A study of literary and cultural expressions of queer and trans identities, positionalities, and analytics through an exploration of literature, art, and media. We will examine historical and political power relations by considering the intersections of sexuality and gender with race, class, nation, and disability. Topics include the social construction and regulation of sexuality and gender, performance and performativity, intersectionality, and the relationship between aesthetic forms and queer/ trans subjectivity. Our interpretations will be informed by queer and trans theories.*

| | | | |
|---|---|---|---|
| 0101 | Leela Chantrelle<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>TWS 0221 | |
| 0201 | Aaron Bartlett<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>TWS 1106 | |

**LGBT310** **Transgender Studies**

*Cross-listed with: WGSS310. Credit only granted for: LGBT310, WMST310 or WGSS310.*

*Introduces students to the interdisciplinary field of transgender studies, providing a history of the field and engaging current debates within it. Students will explore the emergence and consolidation of trans identities, practices, cultures, and knowledges across medical, historical, sociological, cultural, and artistic contexts, paying particular attention to dynamics of race, class, and ability, to global and transnational difference, and to the implications of transgender studies for understanding gender and sexuality overall.*

| | | |
|---|---|---|
| 0101 | Sayan Bhattacharya<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>ASY 1213 |

**LGBT350** **LGBTQ+ Public Speaking and Facilitation**

(Perm req)

*Prerequisite: LGBT200. Restriction: Must have permission of LGBT Studies Program.*

*Guides students through oral communication skills around LGBTQ+ topics. The course centers the experiences of minoritized intersectional LGBTQ+ communities, and students will use speaking, presentation, and facilitation skills to educate the UMD community about sexual orientation and gender identity and expression through panel discussions in classes, residence halls, and other university settings. Students who have received training for this purpose enter into these discussions prepared to disseminate accurate information, to answer questions that students, staff, and faculty may have about the realities of LGBTQ+ lives. Students will receive training that is rooted in queer theory and social justice education, building on the prerequisite course LGBT 200.*

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|---|---|---|
| 0101 | Shantala Thompson<br>Th 4:15pm - 6:15pm<br>Class time/details on ELMs | Seats (Total: 10)<br>WDS 1127<br>ONLINE |

**LGBT386** **Lesbian, Gay, Bisexual, and Transgender Community Organization Internship**

(Perm req)

*Prerequisite: 9 credits in LGBT courses. Restriction: Permission of LGBT Studies Program.*

*Supervised internship experience with a community organization that expressly serves lesbian, gay, bisexual, and transgender people. Students will be expected to relate course material to experience in an analysis of an organization's activities.*

**Contact department for information to register for this course.**

**LGBT448Y** **Special Topics in Lesbian, Gay, Bisexual, and Transgender Studies; Dickinson, Erotics, Poetics, Biopics: Some (Queer) Ways We Read Poetry**

*In-depth study of particular themes and issues in LGBT studies.*

Prerequisite: Two English courses in literature; or permission of ARHU-English department. Cross-listing with ENGL439D and WGSS498Y. Credit only granted for ENGL439D, LGBT448Y, WGSS498Y, or WMST498Y.

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|---|---|---|---|
| 0101 | Martha Nell Smith<br>TuTh 12:30pm - 1:45pm | Seats (Total: 20)<br>TWS 1313 | |

**LGBT459D** **Selected Topics in Sexuality and Literature; Life Writings in Different Media**

*Detailed study of sexuality as an aspect of literary and cultural expression.*

Cross-listed with ENGL459C. Credit only granted for ENGL459C or LGBT459D.

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|---|---|---|---|
| 0101 | Martha Nell Smith<br>TuTh 3:30pm - 4:45pm | Seats (Total: 15)<br>TWS 1313 | |

**LGBT499** **Independent Study**

(Perm req)

*Directed research and analysis in LGBT Studies on a topic selected by the student.*

**Contact department for information to register for this course.**

# LING Linguistics Fall 2024

**LING200** **Introductory Linguistics**

*Credit only granted for: HESP120 or LING200. Additional information: This course serves as the prerequisite for further courses in linguistics.*

*An exploration of the nature of human language. Introduction to the basic concepts and methodology of modern linguistic analysis (sound systems, word formation, sentence structure). Examination of the factors that contribute to dialect differences and the social implications of language variation. Additional topics may include: semantics, pragmatics, language change, writing systems, typology, language universals, comparison with other communication systems.*

| | | | |
|---|---|---|---|
| 0101 | Aron Hirsch, Valentine Hacquard<br>MW 1:00pm - 1:50pm<br>F 10:00am - 10:50am | Seats (Total: 25)<br>SQH 1120<br>SQH 1101 | <br><br>Discussion |
| 0102 | Aron Hirsch, Valentine Hacquard<br>MW 1:00pm - 1:50pm<br>F 11:00am - 11:50am | Seats (Total: 25)<br>SQH 1120<br>MTH 0304 | <br><br>Discussion |
| 0104 | Aron Hirsch, Valentine Hacquard<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 25)<br>SQH 1120<br>MMH 1304 | <br><br>Discussion |

**LING240** **Language and Mind**

*Prerequisite: Minimum grade of C- in LING200. Additional information: Required for Linguistics majors and recommended for students in related fields.*

*The study of language as a cognitive phenomenon. Ways of representing people's knowledge of their native language, ways in which that knowledge is attained naturally by children, and how it is used in speaking and listening. Additional topics may include: animal communication, language and the brain, language and thought.*

| | | |
|---|---|---|
| 0101 | Margaret Antonisse | Seats (Total: 50) |
| | MWF 11:00am - 11:50am | TWS 1107 |

**LING248** **Introduction to Laboratory Research in Linguistics**

(Perm req)

*Individualized, collaborative research course aimed at developing skills for laboratory research in language acquisition, sentence processing or neurolinguistics. Learning to conduct research in laboratory linguistics as part of a research team that will create original research in the field.*

| | | |
|---|---|---|
| 0101 | Jeffrey Lidz | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**LING248T** **Introduction to Laboratory Research in Linguistics**

*Individualized, collaborative research course aimed at developing skills for laboratory research in language acquisition, sentence processing or neurolinguistics. Learning to conduct research in laboratory linguistics as part of a research team that will create original research in the field.*

| | | |
|---|---|---|
| 0101 | Andrea Zukowski | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**LING311** **Syntax I**

*Prerequisite: LING240.*

*Basic concepts, analytical techniques of generative syntax, relation to empirical limits imposed by viewing grammars as representations of a component of human mind. Aspects of current theories.*

| | | |
|---|---|---|
| 0101 | Tonia Bleam | Seats (Total: 25) |
| | TuTh 2:00pm - 3:15pm | ARC 1103 |

**LING320** **Phonetics**

*Prerequisite: Minimum grade of C- in LING200 or LING240. Additional information: This course counts as a core course for the linguistics major. Only one of Ling320 or HESP403 can be used to count towards the Linguistics major.*

*Representations and models of acoustic and articulatory phonetics. Develops concepts and skills for description, measurement and scientific analysis of the sound systems of human languages, including various varieties of English.*

| | | |
|---|---|---|
| 0101 | William Idsardi | Seats (Total: 40) |
| | Class time/details on ELMs | ONLINE |

**LING321** **Phonology I**

*Prerequisite: LING240.*

*Properties of sound systems of human languages, basic concepts and analytical techniques of generative phonology. Empirical limits imposed by viewing grammars as cognitive representations. Physiological properties and phonological systems; articulatory phonetics and distinctive feature theory.*

| | | |
|---|---|---|
| 0101 | Margaret Antonisse | Seats (Total: 25) |
| | TuTh 11:00am - 12:15pm | KEY 0121 |

**LING350** **Philosophy of Language**

*Prerequisite: LING311; or 2 courses in PHIL and (PHIL170 or PHIL370); or permission of ARHU-Philosophy department. Cross-listed with: PHIL360. Credit only granted for: LING350 or PHIL360.*

*The nature and function of language and other forms of symbolism from a philosophical perspective.*

| | | |
|---|---|---|
| 0101 | Alexander Williams | Seats (Total: 30) |
| | TuTh 9:30am - 10:45am | EDU 3315 |

**LING419D** **Topics in Syntax; MODALS AND CONDITIONALS**

*Topics vary.*

Prerequisites: LING311. Major current theories and debates on modals and conditionals, with a particular focus on the puzzles that arise when conditionals interact with modals.

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|---|---|---|
| 0101 | Jingyi Chen | Seats (Total: 10) |
| | MW 12:00pm - 1:15pm | JMZ 2125 |

**LING440** **Grammars and Cognition**

*Prerequisite: LING321 and LING311.*

*Relationship between the structure, development and functioning of grammars and the structure, development and functioning of other mental systems. Interpretations of experimental and observational work on children's language, aphasia, speech production and comprehension.*

| | | |
|---|---|---|
| 0101 | Ellen Lau | Seats (Total: 25) |
| | MW 2:00pm - 3:15pm | TLF 0110 |

**LING448** **Advanced Laboratory Research in Linguistics**

(Perm req)

*Individualized, collaborative research course aimed at developing skills for laboratory research in language acquisition, sentence processing or neurolinguistics. Conducting a research project in laboratory linguistics as part of a team creating original research relevant to current issues in linguistics.*

| | | |
|---|---|---|
| 0101 | Jeffrey Lidz | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**LING449I** **Topics in Psycholinguistics; Linguistics of Sign Languages**

*Critical evaluation of primary research in psycholinguistics. Relating theoretical hypotheses to experimental hypotheses and predictions. Evaluation of experimental results. Emphasis on hands-on experience and experimental methodologies. Specific topics vary.*

Prerequisite: LING311 and LING321. Investigation of various topics in sign language research, using data from multiple signed and spoken languages to illuminate the fundamental nature of human language and the extent/limits of how human languages can vary. Topics include phonology, morphology, and syntax, native acquisition of signed languages, bimodal bilingual acquisition and heritage signers, sentence processing and production. Students will also gain hands-on experience analyzing sign language data and designing experiments to test various hypotheses. No previous sign language experience required.

| | | |
|---|---|---|
| 0101 | Tonia Bleam, Deborah Pichler | Seats (Total: 20) |
| | MW 3:30pm - 4:45pm | MMH 0108 |

**LING449V** **Topics in Psycholinguistics; L2 SPEECH ACQUISITION**

*Critical evaluation of primary research in psycholinguistics. Relating theoretical hypotheses to experimental hypotheses and predictions. Evaluation of experimental results. Emphasis on hands-on experience and experimental methodologies. Specific topics vary.*

Prerequisites: LING311 and LING321. A survey of second language (L2) speech acquisition reviewing theories, empirical findings, practical applications and some pedagogical considerations.

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|---|---|---|
| 0101 | Joselyn Rodriguez | Seats (Total: 10) |
| | TuTh 3:30pm - 4:45pm | JMZ 1226 |

**LING499** **Directed Studies in Linguistics**

(Perm req)

*Independent study or research on language under the supervision of a faculty member.*

**Contact department for information to register for this course.**

**LING499C** **Directed Studies in Linguistics; Teaching Assistantship**

(Perm req)

*Independent study or research on language under the supervision of a faculty member.*

Designed for students that will be teaching assistants for LING200.

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|---|---|---|
| 0101 | Margaret Antonisse<br>Contact instructor or department for details. | Seats (Total: 4) |
| 0201 | Tonia Bleam<br>Contact instructor or department for details. | Seats (Total: 4) |

**LING499H** **Directed Studies in Linguistics**

(Perm req)

*Independent study or research on language under the supervision of a faculty member.*

**Contact department for information to register for this course.**

**LING610** **Syntactic Theory**

*Prerequisite: LING312.*

*Intensive introduction to transformational syntax.*

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|---|---|---|
| 0101 | Juan Uriagereka<br>TuTh 2:00pm - 3:15pm | Seats (Total: 15)<br>MMH 1108B |

**LING625** **Morphology and the Lexicon**

*The structure of words and investigation of how word formation processes interact with other components of grammar.*

| | | |
|---|---|---|
| 0101 | William Idsardi<br>TuTh 11:00am - 12:15pm | Seats (Total: 10)<br>MMH 1108B |

**LING640** **Psycholinguistics**

(Perm req)

*Restriction: Permission of instructor.*

*Core graduate course in psycholinguistics, covering leading theoretical approaches and experimental methods in language acquisition, language processing, and neurolinguistics.*

| | | |
|---|---|---|
| 0101 | Ellen Lau<br>MW 12:00pm - 1:30pm | Seats (Total: 20)<br>MMH 1108B |

**LING660** **Introduction to Semantics**

(Perm req)

*Restriction: Permission of instructor.*

*Basic concepts and methods of contemporary semantic theory including basic set theory, elementary propositional and predicate calculus, the structure of predicates and propositions, quantification binding. Prepares students for study of more advanced topics in semantics.*

Cross-listed with PHIL688T. Credit granted for LING660 or PHIL688T.

| | | |
|---|---|---|
| 0101 | Alexander Williams | Seats (Total: 15) |
| | TuTh 11:00am - 12:15pm | MMH 1401G |

**LING689** **Independent Study**

*Independent studies in grammatical theory.*

**Contact department for information to register for this course.**

**LING698** **Directed Study; Seminar**

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|---|---|---|
| 0101 | William Idsardi | Seats (Total: 10) |
| | F 3:00pm - 5:00pm | Location: TBA |

**LING698T** **Directed Study; Pedagogy for Linguistics**

Required for LING200 Teaching Assistants.

| | | |
|---|---|---|
| 0101 | Valentine Hacquard | Seats (Total: 6) |
| | Contact instructor or department for details. | |

**LING723** **Natural Language Processing**

*Prerequisite: Minimum grade of C- in CMSC422; and permission of CMNS-Computer Science department. Cross-listed with: CMSC723, INST735. Credit only granted for: CMSC723, LING723, or INST735. Additional information: CMSC students may only receive PhD Comp. credit for CMSC723 or CMSC823, not both.*

*Introduce fundamental concepts, techniques, and algorithms for the computational handling of natural language. Statistical and machine learning techniques, models, and algorithms that enable computers to deal with the ambiguity and implicit structure of human language. Approaches that focus on uncovering linguistic structure, such as syntactic or semantic parsing, as well as those that focus on manipulating text in useful ways, such as question answering or machine translation.*

| | | |
|---|---|---|
| 0101 | Jordan Ying, Naomi Feldman | Seats (Total: 49) |
| | MW 2:00pm - 3:15pm | IRB 1116 |

**LING798** **Research Papers in Linguistics**

(Perm req)

**Contact department for information to register for this course.**

**LING799** **Master's Thesis Research**

**Contact department for information to register for this course.**

**LING829A** **Seminar in Phonological Theory**

*Current topics in research on phonology and morphology.*

| | | |
|---|---|---|
| 0101 | Kate Mooney<br>M 2:00pm - 5:00pm | Seats (Total: 10)<br>MMH 1108B |

**LING848P** **Seminar in Computational Linguistics; Computing and the Brain**

*Current topics in research in computational linguistics.*

It is widely agreed that understanding the brain involves understanding its computations. What do we actually mean by computation? (Starting point: "computation" and "large language models" are not synonyms.) In this seminar we will get a foundation in what computation is, specifically in the context of what brains do; we will then delve into literature about two key features of the brain's computations, memory and prediction, with a focus on language. The last portion of the class will look at recent literature on these topics -- what questions are people asking, and what kinds of models are they proposing?

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|---|---|---|
| 0101 | Ellen Lau, Philip Resnik<br>Tu 2:00pm - 4:30pm | Seats (Total: 20)<br>WDS 1131 |

**LING879A** **Seminar in Semantics**

*Current topics in research in semantics.*

| | | |
|---|---|---|
| 0101 | Aron Hirsch<br>W 2:00pm - 5:00pm | Seats (Total: 10)<br>MMH 1108B |

**LING888** **Doctoral Research Paper**

*Students will strengthen their abilities to formulate coherent research questions, conduct research and create a publishable piece of work. In addition, the course is part of a set of requirements to advance to doctoral candidacy.*

| | | |
|---|---|---|
| 0101 | Howard Lasnik<br>Contact instructor or department for details. | Seats (Total: 3) |
| 0201 | Norbert Hornstein<br>Contact instructor or department for details. | Seats (Total: 3) |
| 0301 | Tonia Bleam<br>Contact instructor or department for details. | Seats (Total: 3) |
| 0401 | Jeffrey Lidz<br>Contact instructor or department for details. | Seats (Total: 3) |
| 0501 | Andrea Zukowski<br>Contact instructor or department for details. | Seats (Total: 3) |

| | | |
|---|---|---|
| 0601 | Juan Uriagereka<br>Contact instructor or department for details. | Seats (Total: 3) |
| 0701 | Amy Weinberg<br>Contact instructor or department for details. | Seats (Total: 3) |
| 0801 | William Idsardi<br>Contact instructor or department for details. | Seats (Total: 3) |
| 0901 | Philip Resnik<br>Contact instructor or department for details. | Seats (Total: 3) |
| 1001 | Maria Polinsky<br>Contact instructor or department for details. | Seats (Total: 3) |
| 1101 | Paul Pietroski<br>Contact instructor or department for details. | Seats (Total: 3) |
| 1201 | Colin Phillips<br>Contact instructor or department for details. | Seats (Total: 3) |
| 1301 | Margaret Antonisse<br>Contact instructor or department for details. | Seats (Total: 3) |
| 1401 | Valentine Hacquard<br>Contact instructor or department for details. | Seats (Total: 3) |
| 1501 | Alexander Williams<br>Contact instructor or department for details. | Seats (Total: 3) |
| 1601 | Naomi Feldman<br>Contact instructor or department for details. | Seats (Total: 3) |
| 1701 | Ellen Lau<br>Contact instructor or department for details. | Seats (Total: 3) |
| 1801 | Aron Hirsch<br>Contact instructor or department for details. | Seats (Total: 3) |

**LING889** **Directed Research**
**Contact department for information to register for this course.**

**LING896** **Research Paper in Minor Area**

*Prerequisite: LING888.*

*This course is designed to strengthen the students' ability to do research in a minor area of expertise, and to help them create a publishable piece. In addition, the course constitutes part of a set of requirements to advance to doctoral candidacy.*

**Contact department for information to register for this course.**

**LING898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**LING899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# MATH Mathematics Fall 2024

**MATH003** **Developmental Mathematics**

*A review of Intermediate High School Algebra intended for students preparing for one of the credit bearing Fundamental Studies Math Courses. It is taught in special computer labs using a self-paced computer program. The curriculum will be geared toward the student's level of algebra skills and eventual goals. There is a special fee for the course that may be applied in addition to the regular tuition charge. Students should refer to the schedule of classes for details on fees as they apply to a particular semester. The course does not carry any credit toward any degree at the University. The course is repeatable. Topics will be chosen from exponents, polynomials, linear equations, quadratic equations as well as polynomial, rational, exponential and logarithm functions and elementary probability or statistics, depending on the student.*

There is a special fee for this class in addition to the regular tuition charge.

| | | |
|---|---|---|
| 0102 | Ryen Burris<br>MWF 9:00am - 10:50am<br>*Restricted to students in the uTERP Program only.* | Seats (Total: 20)<br>MTH B0429 |
| 0201 | Oscar Coppola<br>MWF 10:00am - 11:50am | Seats (Total: 36)<br>CEN 0200 |
| 0202 | Oscar Coppola<br>MWF 10:00am - 11:50am | Seats (Total: 20)<br>PHY 4220 |
| 0601 | Colleen Terpos<br>TuTh 8:00am - 10:45am | Seats (Total: 36)<br>CEN 0200 |
| 0602 | Colleen Terpos<br>TuTh 8:00am - 10:45am | Seats (Total: 20)<br>PHY 4220 |
| 0701 | Colleen Terpos<br>TuTh 11:00am - 1:45pm | Seats (Total: 36)<br>CEN 0200 |

| | | |
|---|---|---|
| 0702 | Colleen Terpos<br>TuTh 11:00am - 1:45pm | Seats (Total: 20)<br>PHY 4220 |
| FC01 | Aaron Large<br>MW 6:00pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 20)<br>CEN 0200 |

**MATH007** **Algebra for MATH 107**

*A review of Intermediate High School Algebra intended for students preparing for MATH107. It is taught 5 days per week for the first 5 weeks, then leads directly into a special section of MATH107, the same semester, which also meets 5 days per week. Continuation in MATH107 is conditional on the student passing the MATHEMATICS PLACEMENT EXAM at the appropriate level. Topics include linear equations, linear inequalities, operations on polynomials, factoring, solutions of quadratic equations, as well as exponential and logarithm functions. MATH007 does not carry any credit toward any degree at the University, nor is it graded. It leads to either MATH107 or MATH003, both of which are graded.*

There is a special fee for this class in addition to the regular tuition charge.

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|---|---|---|
| 1101 | Valerie Wray<br>MTuWThF 11:00am - 11:50am | Seats (Total: 21)<br>PHY 4222 |
| 1201 | Leah White<br>MTuWThF 1:00pm - 1:50pm | Seats (Total: 20)<br>PHY 4222 |

**MATH013** **Algebra for MATH 113**

*A review of Intermediate High School Algebra intended for students preparing for MATH113. It is taught 5 days per week for the first 5 weeks, then leads directly into a special section of MATH113, the same semester, which also meets 5 days per week. Continuation in MATH113 is conditional on the student passing the MATHEMATICS PLACEMENT EXAM at the appropriate level. Topics include exponents, polynomials, linear equations, quadratic equations, as well as polynomial, rational, exponential, and logarithm functions, and trigonometry. MATH013 does not carry any credit toward any degree at the University, nor is it graded. It leads directly to MATH113 (or MATH107), or MATH003, all of which are graded.*

There is a special fee for this class in addition to the regular tuition charge.

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|---|---|---|
| 1101 | Isabelle Stepler<br>MTuWThF 9:00am - 9:50am | Seats (Total: 26)<br>MTH 0402 |
| 1201 | Steven Sax<br>MTuWThF 11:00am - 11:50am | Seats (Total: 26)<br>MTH 0402 |

| | | |
|---|---|---|
| 1301 | Steven Sax<br>MTuWThF 12:00pm - 12:50pm | Seats (Total: 26)<br>MTH 0402 |
| 1401 | Steven Sax<br>MTuWThF 1:00pm - 1:50pm | Seats (Total: 26)<br>MTH 0402 |

**MATH015** **Algebra for MATH 115**

*A review of Intermediate High School Algebra intended for students preparing for MATH115. It is taught 5 days per week for the first 5 weeks, then leads directly into a special section of MATH115, the same semester, which also meets 5 days per week. Continuation in MATH115 is conditional on the student passing the MATHEMATICS PLACEMENT EXAM at the appropriate level. Topics include exponents, polynomials, linear equations in one and two variables, quadratic equations, as well as polynomial, rational, exponential, logarithm functions and trigonometry. MATH015 does not carry any credit toward any degree at the University, nor is it graded. It leads directly to MATH115 (or MATH107 or MATH113), or MATH003, all of which are graded.*

There is a special fee for this class in addition to the regular tuition charge.

| | | |
|---|---|---|
| 1101 | Joshua Lucker<br>MTuWThF 9:00am - 9:50am | Seats (Total: 26)<br>ATL 1109 |
| 1201 | Joshua Lucker<br>MTuWThF 11:00am - 11:50am | Seats (Total: 26)<br>ATL 1109 |
| 1301 | Ben Bezejouh<br>MTuWThF 12:00pm - 12:50pm | Seats (Total: 26)<br>ATL 1109 |
| 1401 | Ben Bezejouh<br>MTuWThF 1:00pm - 1:50pm | Seats (Total: 26)<br>ATL 1109 |

**MATH107** **Introduction to Math Modeling and Probability**

*Prerequisite: Must have math eligibility of MATH107 or higher; and math eligibility is based on Math Placement Exam or successful completion of MATH003 with appropriate eligibility. Restriction: Not open to students majoring in mathematics, engineering, business, life sciences, and the physical sciences; must not have completed STAT100, MATH113, MATH120, MATH135, MATH136 or MATH140 with a C- or better; must not have completed any MATH or STAT course with a prerequisite of MATH120, MATH136, or MATH140. Formerly: MATH110 and MATH111.*

*A goal is to convey the power of mathematics as shown by a variety of problems which can be modeled and solved by quantitative means. Also included is an introduction to probability. Topics include data analysis, equations, systems of equations, inequalities, elementary linear programming, Venn diagrams, counting, basic probability, permutations, combinations, tree diagrams, standard normal and normal distributions. The mathematics of finance is covered. The course includes problem solving and decision making in economics, management, and social sciences.*

| | | | |
|---|---|---|---|
| 0101 | Mirna Pinsky<br>MWF 11:00am - 11:50am | Seats (Total: 29)<br>MTH B0425 | |
| 0201 | Joshua Himmelsbach<br>MWF 12:00pm - 12:50pm | Seats (Total: 29)<br>MTH B0425 | |
| 0301 | Mirna Pinsky<br>MWF 1:00pm - 1:50pm | Seats (Total: 29)<br>MTH B0425 | |
| 0401 | Ayala Nuriely Kimel<br>TuTh 2:00pm - 3:15pm | Seats (Total: 28)<br>MTH 0105 | |
| FC01 | Julie Daberkow<br>MW 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 20)<br>MTH 0103 | |

**MATH113** **College Algebra and Trigonometry**

*Prerequisite: Must have math eligibility of MATH113 or higher; and math eligibility is based on the Math Placement Exam or the successful completion of MATH 003 with appropriate eligibility. Restriction: Must not have completed MATH115, MATH120, MATH135, MATH136 or MATH140 with a grade of C- or higher; and must not have completed any course with a prerequisite of MATH120, MATH130, MATH136, or MATH140.*

*Topics include elementary functions including graphs and applications of: polynomial, rational, exponential, and logarithmic functions. Systems of equations and applications. Trigonometric functions: angle and radian measure, graphs and applications.*

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|---|---|---|---|
| 0111 | Barbara Michelato<br>TuTh 9:30am - 10:45am<br>W 9:00am - 9:50am | Seats (Total: 30)<br>ARM 0131<br>MTH B0427 | Discussion |
| 0112 | Barbara Michelato<br>TuTh 9:30am - 10:45am<br>W 9:00am - 9:50am | Seats (Total: 32)<br>ARM 0131<br>MTH 0304 | Discussion |
| 0121 | Barbara Michelato<br>TuTh 9:30am - 10:45am<br>W 10:00am - 10:50am | Seats (Total: 30)<br>ARM 0131<br>MTH B0427 | Discussion |
| 0122 | Barbara Michelato<br>TuTh 9:30am - 10:45am<br>W 10:00am - 10:50am | Seats (Total: 31)<br>ARM 0131<br>MTH 0304 | Discussion |

| | | | |
|---|---|---|---|
| 0131 | Barbara Michelato<br>TuTh 9:30am - 10:45am<br>W 11:00am - 11:50am | Seats (Total: 30)<br>ARM 0131<br>MTH B0427 | Discussion |
| 0132 | Barbara Michelato<br>TuTh 9:30am - 10:45am<br>W 11:00am - 11:50am | Seats (Total: 31)<br>ARM 0131<br>MTH 0303 | Discussion |
| 0141 | Barbara Michelato<br>TuTh 9:30am - 10:45am<br>W 12:00pm - 12:50pm | Seats (Total: 30)<br>ARM 0131<br>MTH B0427 | Discussion |
| 0142 | Barbara Michelato<br>TuTh 9:30am - 10:45am<br>W 12:00pm - 12:50pm | Seats (Total: 31)<br>ARM 0131<br>MTH 0303 | Discussion |
| 0211 | Barbara Michelato<br>TuTh 11:00am - 12:15pm<br>W 12:00pm - 12:50pm | Seats (Total: 32)<br>ARM 0131<br>MTH 0106 | Discussion |
| 0221 | Barbara Michelato<br>TuTh 11:00am - 12:15pm<br>W 1:00pm - 1:50pm | Seats (Total: 32)<br>ARM 0131<br>MTH 0106 | Discussion |
| 0231 | Barbara Michelato<br>TuTh 11:00am - 12:15pm<br>W 2:00pm - 2:50pm | Seats (Total: 32)<br>ARM 0131<br>MTH 0106 | Discussion |
| 0241 | Barbara Michelato<br>TuTh 11:00am - 12:15pm<br>W 3:00pm - 3:50pm | Seats (Total: 32)<br>ARM 0131<br>MTH 0106 | Discussion |
| FC01 | Jocelyn Menecio<br>TuTh 6:00pm - 7:15pm<br>F 9:00am - 9:50am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 30)<br>CHM 1402<br>MTH 0411 | Discussion |
| FC02 | Jocelyn Menecio<br>TuTh 6:00pm - 7:15pm<br>F 10:00am - 10:50am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 30)<br>CHM 1402<br>MTH 0411 | Discussion |

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|---|---|---|---|
| FC03 | Jocelyn Menecio<br>TuTh 6:00pm - 7:15pm<br>F 11:00am - 11:50am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 30)<br>CHM 1402<br>CHE 2136 | Discussion |
| FC04 | Jocelyn Menecio<br>TuTh 6:00pm - 7:15pm<br>F 1:00pm - 1:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 30)<br>CHM 1402<br>BPS 1232 | Discussion |

**MATH115** **Precalculus**

*Prerequisite: Must have math eligibility of MATH115 or higher; and math eligibility is based on the Math Placement Exam or the successful completion of MATH003 with appropriate eligibility. Or MATH113. Restriction: Must not have completed MATH140 with a grade of C- or better; and must not have completed any MATH or STAT course with a prerequisite of MATH140 or MATH141.*

*Preparation for MATH120, MATH135 or MATH140. Elementary functions and graphs: polynomials, rational functions, exponential and logarithmic functions, trigonometric functions. Algebraic techniques preparatory for calculus.*

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|---|---|---|---|
| 0111 | Sean Gruber<br>MWF 11:00am - 11:50am<br>MWF 10:00am - 10:50am | Seats (Total: 30)<br>ESJ 0202<br>PHY 4207 | Lab |
| 0121 | Sean Gruber<br>MWF 11:00am - 11:50am<br>MWF 9:00am - 9:50am | Seats (Total: 30)<br>ESJ 0202<br>PHY 4207 | Lab |
| 0131 | Sean Gruber<br>MWF 11:00am - 11:50am<br>MWF 12:00pm - 12:50pm | Seats (Total: 30)<br>ESJ 0202<br>PHY 4207 | Lab |
| 0141 | Sean Gruber<br>MWF 11:00am - 11:50am<br>MWF 1:00pm - 1:50pm | Seats (Total: 30)<br>ESJ 0202<br>PHY 4207 | Lab |
| 0151 | Sean Gruber<br>MWF 11:00am - 11:50am<br>MWF 2:00pm - 2:50pm | Seats (Total: 30)<br>ESJ 0202<br>PHY 4207 | Lab |

| | | | |
|---|---|---|---|
| 0161 | Sean Gruber<br>MWF 11:00am - 11:50am<br>MWF 3:00pm - 3:50pm | Seats (Total: 30)<br>ESJ 0202<br>PHY 4207 | <br><br>Lab |
| 0171 | Sean Gruber<br>MWF 11:00am - 11:50am<br>TuTh 9:30am - 10:45am | Seats (Total: 31)<br>ESJ 0202<br>PHY 4207 | <br><br>Lab |
| 0181 | Sean Gruber<br>MWF 11:00am - 11:50am<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>ESJ 0202<br>PHY 4207 | <br><br>Lab |
| 0191 | Sean Gruber<br>MWF 11:00am - 11:50am<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>ESJ 0202<br>PHY 4207 | <br><br>Discussion |
| 0192 | Sean Gruber<br>MWF 11:00am - 11:50am<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>ESJ 0202<br>PHY 4207 | <br><br>Discussion |
| FC01 | Sean Gruber<br>MW 3:00pm - 4:15pm<br>F 9:00am - 9:50am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 26)<br>TWS 0310<br>MTH 0302 | <br><br>Discussion |
| FC02 | Sean Gruber<br>MW 3:00pm - 4:15pm<br>F 10:00am - 10:50am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 26)<br>TWS 0310<br>MTH 0302 | <br><br>Discussion |
| FC03 | Sean Gruber<br>MW 3:00pm - 4:15pm<br>F 11:00am - 11:50am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 26)<br>TWS 0310<br>MTH 0302 | <br><br>Discussion |
| FC04 | Sean Gruber<br>MW 3:00pm - 4:15pm<br>F 1:00pm - 1:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 26)<br>TWS 0310<br>MTH 0302 | <br><br>Discussion |

**MATH120 Elementary Calculus I**

*Prerequisite: 1 course with a minimum grade of C- from (MATH113, MATH115). Or must have math eligibility of MATH120 or higher; and math eligibility is based on the Math Placement Test. Restriction: Not open to students majoring in mathematics, engineering, the biological sciences, biochemistry, chemistry, or the physical sciences; Must not have completed MATH130, MATH136 or MATH140 with a grade of C- or higher. Formerly: MATH220.*

*Basic ideas of differential and integral calculus, with emphasis on elementary techniques of differentiation and applications.*

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|---|---|---|---|
| 0111 | Timothy Pilachowski<br>MWF 9:00am - 9:50am<br>Th 8:00am - 8:50am | Seats (Total: 29)<br>ESJ 0202<br>HJP 2242 | Discussion |
| 0112 | Timothy Pilachowski<br>MWF 9:00am - 9:50am<br>Th 8:00am - 8:50am | Seats (Total: 29)<br>ESJ 0202<br>HJP 2242 | Discussion |
| 0121 | Timothy Pilachowski<br>MWF 9:00am - 9:50am<br>Th 9:00am - 9:50am | Seats (Total: 29)<br>ESJ 0202<br>HJP 2242 | Discussion |
| 0122 | Timothy Pilachowski<br>MWF 9:00am - 9:50am<br>Th 9:00am - 9:50am | Seats (Total: 29)<br>ESJ 0202<br>HJP 2242 | Discussion |
| 0131 | Timothy Pilachowski<br>MWF 9:00am - 9:50am<br>Th 10:00am - 10:50am | Seats (Total: 29)<br>ESJ 0202<br>HJP 2242 | Discussion |
| 0132 | Timothy Pilachowski<br>MWF 9:00am - 9:50am<br>Th 10:00am - 10:50am | Seats (Total: 29)<br>ESJ 0202<br>HJP 2242 | Discussion |
| 0141 | Timothy Pilachowski<br>MWF 9:00am - 9:50am<br>Th 11:00am - 11:50am | Seats (Total: 29)<br>ESJ 0202<br>HJP 2242 | Discussion |
| 0142 | Timothy Pilachowski<br>MWF 9:00am - 9:50am<br>Th 11:00am - 11:50am | Seats (Total: 29)<br>ESJ 0202<br>HJP 2242 | Discussion |

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|---|---|---|---|
| 0211 | Archana Khurana<br>MWF 10:00am - 10:50am<br>Tu 8:00am - 8:50am | Seats (Total: 30)<br>ESJ 0224<br>HJP 2242 | <br><br>Discussion |
| 0212 | Archana Khurana<br>MWF 10:00am - 10:50am<br>Tu 8:00am - 8:50am | Seats (Total: 30)<br>ESJ 0224<br>HJP 2242 | <br><br>Discussion |
| 0221 | Archana Khurana<br>MWF 10:00am - 10:50am<br>Tu 9:00am - 9:50am | Seats (Total: 30)<br>ESJ 0224<br>HJP 2242 | <br><br>Discussion |
| 0222 | Archana Khurana<br>MWF 10:00am - 10:50am<br>Tu 9:00am - 9:50am | Seats (Total: 30)<br>ESJ 0224<br>HJP 2242 | <br><br>Discussion |
| 0231 | Archana Khurana<br>MWF 10:00am - 10:50am<br>Tu 10:00am - 10:50am | Seats (Total: 29)<br>ESJ 0224<br>HJP 2242 | <br><br>Discussion |
| 0232 | Archana Khurana<br>MWF 10:00am - 10:50am<br>Tu 10:00am - 10:50am | Seats (Total: 30)<br>ESJ 0224<br>HJP 2242 | <br><br>Discussion |
| 0241 | Archana Khurana<br>MWF 10:00am - 10:50am<br>Tu 11:00am - 11:50am | Seats (Total: 30)<br>ESJ 0224<br>HJP 2242 | <br><br>Discussion |
| 0242 | Archana Khurana<br>MWF 10:00am - 10:50am<br>Tu 11:00am - 11:50am | Seats (Total: 30)<br>ESJ 0224<br>HJP 2242 | <br><br>Discussion |
| 0311 | Mestiyage Gunatilleka<br>TuTh 11:00am - 12:15pm<br>M 11:00am - 11:50am | Seats (Total: 32)<br>ARM 0126<br>MTH 0106 | <br><br>Discussion |
| 0312 | Mestiyage Gunatilleka<br>TuTh 11:00am - 12:15pm<br>M 11:00am - 11:50am | Seats (Total: 30)<br>ARM 0126<br>MTH 0407 | <br><br>Discussion |

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|---|---|---|---|
| 0321 | Mestiyage Gunatilleka<br>TuTh 11:00am - 12:15pm<br>M 12:00pm - 12:50pm | Seats (Total: 32)<br>ARM 0126<br>MTH 0106 | Discussion |
| 0322 | Mestiyage Gunatilleka<br>TuTh 11:00am - 12:15pm<br>M 12:00pm - 12:50pm | Seats (Total: 30)<br>ARM 0126<br>MTH 0407 | Discussion |
| 0331 | Mestiyage Gunatilleka<br>TuTh 11:00am - 12:15pm<br>M 1:00pm - 1:50pm | Seats (Total: 31)<br>ARM 0126<br>MTH 0106 | Discussion |
| 0332 | Mestiyage Gunatilleka<br>TuTh 11:00am - 12:15pm<br>M 1:00pm - 1:50pm | Seats (Total: 30)<br>ARM 0126<br>MTH 0407 | Discussion |
| 0341 | Mestiyage Gunatilleka<br>TuTh 11:00am - 12:15pm<br>M 2:00pm - 2:50pm | Seats (Total: 31)<br>ARM 0126<br>MTH 0105 | Discussion |
| 0342 | Mestiyage Gunatilleka<br>TuTh 11:00am - 12:15pm<br>M 2:00pm - 2:50pm | Seats (Total: 30)<br>ARM 0126<br>MTH 0407 | Discussion |
| 0411 | Qendrim Gashi<br>TuTh 12:30pm - 1:45pm<br>W 11:00am - 11:50am | Seats (Total: 30)<br>ARM 0126<br>MTH B0429 | Discussion |
| 0421 | Qendrim Gashi<br>TuTh 12:30pm - 1:45pm<br>W 12:00pm - 12:50pm | Seats (Total: 30)<br>ARM 0126<br>MTH B0429 | Discussion |
| 0431 | Qendrim Gashi<br>TuTh 12:30pm - 1:45pm<br>W 1:00pm - 1:50pm | Seats (Total: 30)<br>ARM 0126<br>MTH B0429 | Discussion |
| 0441 | Qendrim Gashi<br>TuTh 12:30pm - 1:45pm<br>W 2:00pm - 2:50pm | Seats (Total: 30)<br>ARM 0126<br>MTH B0429 | Discussion |

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|---|---|---|---|
| FC01 | Jason Schultz<br>TuTh 6:00pm - 7:15pm<br>F 9:00am - 9:50am | Seats (Total: 30)<br>ATL 2324<br>MTH 0304 | Discussion |
| | *Restricted to students in Freshmen Connection.* | | |
| FC02 | Jason Schultz<br>TuTh 6:00pm - 7:15pm<br>F 10:00am - 10:50am | Seats (Total: 30)<br>ATL 2324<br>MTH 0304 | Discussion |
| | *Restricted to students in Freshmen Connection.* | | |
| FC03 | Jason Schultz<br>TuTh 6:00pm - 7:15pm<br>F 11:00am - 11:50am | Seats (Total: 30)<br>ATL 2324<br>MTH 0401 | Discussion |
| | *Restricted to students in Freshmen Connection.* | | |
| FC04 | Jason Schultz<br>TuTh 6:00pm - 7:15pm<br>F 1:00pm - 1:50pm | Seats (Total: 30)<br>ATL 2324<br>MTH 0411 | Discussion |
| | *Restricted to students in Freshmen Connection.* | | |

**MATH121** **Elementary Calculus II**

*Prerequisite: MATH120, MATH130, MATH136, or MATH140. Restriction: Not open to students majoring in mathematics, engineering, the biological sciences, biochemistry, chemistry, or the physical sciences; Must not have completed MATH141 with a grade of C- or higher. Formerly: MATH221.*

*Trigonometric functions, techniques of integration, infinite series, differential equations, probability.*

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|---|---|---|---|
| 0201 | Yaxiong Liu<br>MWF 1:00pm - 1:50pm | Seats (Total: 20)<br>MTH 1308 | |

**MATH135** **Discrete Mathematics for Life Sciences**

*Prerequisite: Minimum grade of C- in MATH113 or MATH115; or must have math eligibility of MATH120 or higher; and math eligibility is based on the Math Placement Test. Restriction: Must be in the Biological Sciences or Neuroscience major; and not open to students majoring in mathematics, engineering, or the physical sciences.*

*Basic discrete mathematics, with emphasis on relevant models and techniques to the life sciences.*

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|---|---|---|---|
| 0111 | Todd Rowland<br>MWF 2:00pm - 2:50pm<br>WF 8:00am - 8:50am | Seats (Total: 30)<br>PHY 1412<br>MTH 0105 | Discussion |

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|---|---|---|---|
| 0112 | Todd Rowland<br>MWF 2:00pm - 2:50pm<br>WF 8:00am - 8:50am | Seats (Total: 30)<br>PHY 1412<br>MTH 0305 | Discussion |
| 0121 | Todd Rowland<br>MWF 2:00pm - 2:50pm<br>WF 9:00am - 9:50am | Seats (Total: 30)<br>PHY 1412<br>MTH 0105 | Discussion |
| 0122 | Todd Rowland<br>MWF 2:00pm - 2:50pm<br>WF 9:00am - 9:50am | Seats (Total: 30)<br>PHY 1412<br>MTH 0305 | Discussion |
| 0131 | Todd Rowland<br>MWF 2:00pm - 2:50pm<br>WF 10:00am - 10:50am | Seats (Total: 30)<br>PHY 1412<br>MTH 0105 | Discussion |
| 0132 | Todd Rowland<br>MWF 2:00pm - 2:50pm<br>WF 10:00am - 10:50am | Seats (Total: 30)<br>PHY 1412<br>MTH 0305 | Discussion |
| 0141 | Todd Rowland<br>MWF 2:00pm - 2:50pm<br>WF 11:00am - 11:50am | Seats (Total: 30)<br>PHY 1412<br>MTH 0105 | Discussion |
| 0142 | Todd Rowland<br>MWF 2:00pm - 2:50pm<br>WF 11:00am - 11:50am | Seats (Total: 30)<br>PHY 1412<br>MTH 0305 | Discussion |
| 0211 | Kendall Williams<br>MWF 10:00am - 10:50am<br>MW 11:00am - 11:50am | Seats (Total: 30)<br>SKN 0200<br>MTH 0405 | Discussion |
| 0212 | Kendall Williams<br>MWF 10:00am - 10:50am<br>MW 11:00am - 11:50am | Seats (Total: 31)<br>SKN 0200<br>PHY 1204 | Discussion |
| 0221 | Kendall Williams<br>MWF 10:00am - 10:50am<br>MW 12:00pm - 12:50pm | Seats (Total: 30)<br>SKN 0200<br>MTH 0405 | Discussion |

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|---|---|---|---|
| 0222 | Kendall Williams<br>MWF 10:00am - 10:50am<br>MW 12:00pm - 12:50pm | Seats (Total: 30)<br>SKN 0200<br>MTH 0403 | Discussion |
| 0231 | Kendall Williams<br>MWF 10:00am - 10:50am<br>MW 1:00pm - 1:50pm | Seats (Total: 30)<br>SKN 0200<br>MTH 0405 | Discussion |
| 0232 | Kendall Williams<br>MWF 10:00am - 10:50am<br>MW 1:00pm - 1:50pm | Seats (Total: 30)<br>SKN 0200<br>MTH 0403 | Discussion |
| 0241 | Kendall Williams<br>MWF 10:00am - 10:50am<br>MW 2:00pm - 2:50pm | Seats (Total: 30)<br>SKN 0200<br>MTH 0405 | Discussion |
| 0242 | Kendall Williams<br>MWF 10:00am - 10:50am<br>MW 2:00pm - 2:50pm | Seats (Total: 30)<br>SKN 0200<br>MTH 0403 | Discussion |

**MATH136** **Calculus for Life Sciences**

*Prerequisite: Minimum grade of C- in MATH135. Restriction: Must be in the Biological Sciences or Neuroscience major; Must not have completed MATH140 with a grade of C- or higher.*

*Continuation of MATH135, including basic ideas of differential and integral calculus, with emphasis on elementary techniques and applications to the life sciences.*

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|---|---|---|---|
| 0111 | Abror Pirnapasov<br>TuTh 12:30pm - 1:45pm<br>MW 9:00am - 9:50am | Seats (Total: 25)<br>ARM 0135<br>MTH 0101 | Discussion |
| 0121 | Abror Pirnapasov<br>TuTh 12:30pm - 1:45pm<br>MW 10:00am - 10:50am | Seats (Total: 26)<br>ARM 0135<br>MTH 0101 | Discussion |
| 0131 | Abror Pirnapasov<br>TuTh 12:30pm - 1:45pm<br>MW 1:00pm - 1:50pm | Seats (Total: 25)<br>ARM 0135<br>MTH 0302 | Discussion |
| 0141 | Abror Pirnapasov<br>TuTh 12:30pm - 1:45pm<br>MW 2:00pm - 2:50pm | Seats (Total: 25)<br>ARM 0135<br>MTH 0302 | Discussion |

**MATH140** **Calculus I**

*Prerequisite: Minimum grade of C- in MATH115.*

*Introduction to calculus, including functions, limits, continuity, derivatives and applications of the derivative, sketching of graphs of functions, definite and indefinite integrals, and calculation of area. The course is especially recommended for science, engineering and mathematics majors.*

Graphing calculators, or computers, etc., with software appropriate for graphing non-trivial functions and doing non-trivial calculations, will be needed.

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|---|---|---|---|
| 0111 | Kendall Williams<br>MWF 9:00am - 9:50am<br>TuTh 8:00am - 9:15am | Seats (Total: 29)<br>SKN 0200<br>PHY 2124 | Discussion |
| 0113 | Kendall Williams<br>MWF 9:00am - 9:50am<br>TuTh 8:00am - 9:15am | Seats (Total: 29)<br>SKN 0200<br>PHY 2213 | Discussion |
| 0121 | Kendall Williams<br>MWF 9:00am - 9:50am<br>TuTh 9:30am - 10:45am | Seats (Total: 27)<br>SKN 0200<br>MTH 1308 | Discussion |
| 0123 | Kendall Williams<br>MWF 9:00am - 9:50am<br>TuTh 9:30am - 10:45am | Seats (Total: 29)<br>SKN 0200<br>MTH 0103 | Discussion |
| 0131 | Kendall Williams<br>MWF 9:00am - 9:50am<br>TuTh 11:00am - 12:15pm | Seats (Total: 27)<br>SKN 0200<br>MTH 1308 | Discussion |
| 0132 | Kendall Williams<br>MWF 9:00am - 9:50am<br>TuTh 11:00am - 12:15pm | Seats (Total: 28)<br>SKN 0200<br>MTH 0103 | Discussion |
| 0211 | Dong Quan Nguyen<br>MWF 10:00am - 10:50am<br>TuTh 9:30am - 10:45am | Seats (Total: 27)<br>ARM 0126<br>MTH 0102 | Discussion |
| 0212 | Dong Quan Nguyen<br>MWF 10:00am - 10:50am<br>TuTh 9:30am - 10:45am | Seats (Total: 26)<br>ARM 0126<br>MTH 1311 | Discussion |

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| 0213 | Dong Quan Nguyen<br>MWF 10:00am - 10:50am<br>TuTh 9:30am - 10:45am | Seats (Total: 28)<br>ARM 0126<br>MTH 0302 | Discussion |
| 0221 | Dong Quan Nguyen<br>MWF 10:00am - 10:50am<br>TuTh 11:00am - 12:15pm | Seats (Total: 29)<br>ARM 0126<br>MTH B0421 | Discussion |
| 0223 | Dong Quan Nguyen<br>MWF 10:00am - 10:50am<br>TuTh 11:00am - 12:15pm | Seats (Total: 28)<br>ARM 0126<br>MTH 0302 | Discussion |
| 0231 | Dong Quan Nguyen<br>MWF 10:00am - 10:50am<br>TuTh 2:00pm - 3:15pm | Seats (Total: 28)<br>ARM 0126<br>MTH B0421 | Discussion |
| 0311 | Boyu Zhang<br>MWF 11:00am - 11:50am<br>TuTh 11:00am - 12:15pm | Seats (Total: 28)<br>ARM 0126<br>MTH 0409 | Discussion |
| 0313 | Boyu Zhang<br>MWF 11:00am - 11:50am<br>TuTh 11:00am - 12:15pm | Seats (Total: 28)<br>ARM 0126<br>MTH 0407 | Discussion |
| 0321 | Boyu Zhang<br>MWF 11:00am - 11:50am<br>TuTh 12:30pm - 1:45pm | Seats (Total: 28)<br>ARM 0126<br>MTH 0409 | Discussion |
| 0323 | Boyu Zhang<br>MWF 11:00am - 11:50am<br>TuTh 12:30pm - 1:45pm | Seats (Total: 28)<br>ARM 0126<br>MTH 0407 | Discussion |
| 0331 | Boyu Zhang<br>MWF 11:00am - 11:50am<br>TuTh 2:00pm - 3:15pm | Seats (Total: 28)<br>ARM 0126<br>MTH 0409 | Discussion |
| 0411 | Timothy Pilachowski<br>MWF 1:00pm - 1:50pm<br>TuTh 9:30am - 10:45am | Seats (Total: 28)<br>ESJ 0224<br>ESJ 0215 | Discussion |

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|---|---|---|---|
| 0413 | Timothy Pilachowski<br>MWF 1:00pm - 1:50pm<br>TuTh 9:30am - 10:45am | Seats (Total: 28)<br>ESJ 0224<br>ESJ 0215 | <br><br>Discussion |
| 0421 | Timothy Pilachowski<br>MWF 1:00pm - 1:50pm<br>TuTh 11:00am - 12:15pm | Seats (Total: 28)<br>ESJ 0224<br>ESJ 0215 | <br><br>Discussion |
| 0423 | Timothy Pilachowski<br>MWF 1:00pm - 1:50pm<br>TuTh 11:00am - 12:15pm | Seats (Total: 28)<br>ESJ 0224<br>ESJ 0215 | <br><br>Discussion |
| 0431 | Timothy Pilachowski<br>MWF 1:00pm - 1:50pm<br>TuTh 12:30pm - 1:45pm | Seats (Total: 28)<br>ESJ 0224<br>ESJ 1309 | <br><br>Discussion |
| 0511 | Steven Chadwick<br>MWF 2:00pm - 2:50pm<br>TuTh 8:00am - 9:15am | Seats (Total: 28)<br>ARM 0135<br>MTH 0101 | <br><br>Discussion |
| 0513 | Steven Chadwick<br>MWF 2:00pm - 2:50pm<br>TuTh 8:00am - 9:15am | Seats (Total: 28)<br>ARM 0135<br>MTH B0425 | <br><br>Discussion |
| 0521 | Steven Chadwick<br>MWF 2:00pm - 2:50pm<br>TuTh 9:30am - 10:45am | Seats (Total: 29)<br>ARM 0135<br>MTH 0101 | <br><br>Discussion |
| 0523 | Steven Chadwick<br>MWF 2:00pm - 2:50pm<br>TuTh 9:30am - 10:45am | Seats (Total: 29)<br>ARM 0135<br>MTH B0425 | <br><br>Discussion |
| 0531 | Steven Chadwick<br>MWF 2:00pm - 2:50pm<br>TuTh 11:00am - 12:15pm | Seats (Total: 28)<br>ARM 0135<br>MTH 0101 | <br><br>Discussion |
| FC01 | Shin Song<br>MWTh 3:00pm - 4:15pm<br>F 9:30am - 10:45am<br><br>*Restricted to students in Freshmen Connection.* | Seats (Total: 30)<br>SKN 0200<br>MTH B0427 | <br><br>Discussion |

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|---|---|---|---|
| FC02 | Shin Song<br>MWTh 3:00pm - 4:15pm<br>F 11:00am - 12:15pm | Seats (Total: 30)<br>SKN 0200<br>MTH B0427 | Discussion |
| | *Restricted to students in Freshmen Connection.* | | |
| FC03 | Shin Song<br>MWTh 3:00pm - 4:15pm<br>F 1:00pm - 2:15pm | Seats (Total: 30)<br>SKN 0200<br>MTH B0427 | Discussion |
| | *Restricted to students in Freshmen Connection.* | | |
| FC04 | Shin Song<br>MWTh 3:00pm - 4:15pm<br>F 2:30pm - 3:45pm | Seats (Total: 30)<br>SKN 0200<br>MTH B0427 | Discussion |
| | *Restricted to students in Freshmen Connection.* | | |
| FC05 | Shin Song<br>MWTh 3:00pm - 4:15pm<br>F 2:30pm - 3:45pm | Seats (Total: 30)<br>SKN 0200<br>MTH B0429 | Discussion |
| | *Restricted to students in Freshmen Connection.* | | |
| FC06 | Shin Song<br>MWTh 3:00pm - 4:15pm<br>F 9:30am - 10:45am | Seats (Total: 30)<br>SKN 0200<br>MTH 0307 | Discussion |
| | *Restricted to students in Freshmen Connection.* | | |
| FC07 | Shin Song<br>MWTh 3:00pm - 4:15pm<br>F 11:00am - 12:15pm | Seats (Total: 30)<br>SKN 0200<br>MTH B0429 | Discussion |
| | *Restricted to students in Freshmen Connection.* | | |
| FC08 | Shin Song<br>MWTh 3:00pm - 4:15pm<br>F 1:00pm - 2:15pm | Seats (Total: 30)<br>SKN 0200<br>MTH B0429 | Discussion |
| | *Restricted to students in Freshmen Connection.* | | |
| FC09 | Craig Schlenoff<br>MWTh 4:30pm - 5:45pm<br>F 2:30pm - 3:45pm | Seats (Total: 30)<br>ESJ 1215<br>MTH 0403 | Discussion |
| | *Restricted to students in Freshmen Connection.* | | |

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|---|---|---|---|
| FC10 | Craig Schlenoff<br>MWTh 4:30pm - 5:45pm<br>F 1:00pm - 2:15pm | Seats (Total: 30)<br>ESJ 1215<br>MTH 0403 | <br><br>Discussion |

*Restricted to students in Freshmen Connection.*

**MATH140H Calculus I**

*Prerequisite: Minimum grade of C- in MATH115.*

*Introduction to calculus, including functions, limits, continuity, derivatives and applications of the derivative, sketching of graphs of functions, definite and indefinite integrals, and calculation of area. The course is especially recommended for science, engineering and mathematics majors.*

For general honors students only. Offered fall only.

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|---|---|---|---|
| 0101 | Shiferaw Berhanu<br>MF 10:00am - 10:50am<br>W 10:00am - 11:50am | Seats (Total: 22)<br>MTH 1313<br>MTH 1313 | |
| 0201 | Yaxiong Liu<br>WF 11:00am - 11:50am<br>M 11:00am - 12:50pm | Seats (Total: 22)<br>MTH 0101<br>MTH 0101 | |

**MATH141 Calculus II**

*Prerequisite: Minimum grade of C- in MATH140.*

*Continuation of MATH140, including techniques of integration, improper integrals, applications of integration (such as volumes, work, arc length, moments), inverse functions, exponential and logarithmic functions, sequences and series.*

Graphing calculators, or computers, etc., with software appropriate for graphing non-trivial functions and doing non-trivial calculations, will be needed.

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|---|---|---|---|
| 0111 | Jaime Paradela Diaz<br>MWF 9:00am - 9:50am<br>TuTh 8:00am - 8:50am | Seats (Total: 29)<br>ARM 0131<br>MTH 0306 | <br><br>Discussion |
| 0112 | Jaime Paradela Diaz<br>MWF 9:00am - 9:50am<br>TuTh 8:00am - 8:50am | Seats (Total: 29)<br>ARM 0131<br>MTH 0304 | <br><br>Discussion |
| 0121 | Jaime Paradela Diaz<br>MWF 9:00am - 9:50am<br>TuTh 9:00am - 9:50am | Seats (Total: 29)<br>ARM 0131<br>MTH 0306 | <br><br>Discussion |

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|---|---|---|---|
| 0122 | Jaime Paradela Diaz<br>MWF 9:00am - 9:50am<br>TuTh 9:00am - 9:50am | Seats (Total: 29)<br>ARM 0131<br>MTH 0304 | Discussion |
| 0131 | Jaime Paradela Diaz<br>MWF 9:00am - 9:50am<br>TuTh 10:00am - 10:50am | Seats (Total: 29)<br>ARM 0131<br>MTH 0306 | Discussion |
| 0141 | Jaime Paradela Diaz<br>MWF 9:00am - 9:50am<br>TuTh 11:00am - 11:50am | Seats (Total: 29)<br>ARM 0131<br>MTH 0306 | Discussion |
| 0211 | Amin Gholampour<br>MWF 11:00am - 11:50am<br>TuTh 8:00am - 8:50am | Seats (Total: 29)<br>ARM 0131<br>MTH B0423 | Discussion |
| 0212 | Amin Gholampour<br>MWF 11:00am - 11:50am<br>TuTh 8:00am - 8:50am | Seats (Total: 29)<br>ARM 0131<br>MTH B0427 | Discussion |
| 0221 | Amin Gholampour<br>MWF 11:00am - 11:50am<br>TuTh 9:00am - 9:50am | Seats (Total: 29)<br>ARM 0131<br>MTH B0423 | Discussion |
| 0222 | Amin Gholampour<br>MWF 11:00am - 11:50am<br>TuTh 9:00am - 9:50am | Seats (Total: 29)<br>ARM 0131<br>MTH B0427 | Discussion |
| 0231 | Amin Gholampour<br>MWF 11:00am - 11:50am<br>TuTh 10:00am - 10:50am | Seats (Total: 29)<br>ARM 0131<br>MTH B0423 | Discussion |
| 0241 | Amin Gholampour<br>MWF 11:00am - 11:50am<br>TuTh 11:00am - 11:50am | Seats (Total: 29)<br>ARM 0131<br>MTH B0423 | Discussion |
| 0311 | Hatice Sahinoglu<br>MWF 12:00pm - 12:50pm<br>TuTh 12:00pm - 12:50pm | Seats (Total: 29)<br>ARM 0135<br>MTH B0425 | Discussion |

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|---|---|---|---|
| 0321 | Hatice Sahinoglu<br>MWF 12:00pm - 12:50pm<br>TuTh 1:00pm - 1:50pm | Seats (Total: 29)<br>ARM 0135<br>MTH B0425 | Discussion |
| 0331 | Hatice Sahinoglu<br>MWF 12:00pm - 12:50pm<br>TuTh 2:00pm - 2:50pm | Seats (Total: 29)<br>ARM 0135<br>MTH B0425 | Discussion |
| 0341 | Hatice Sahinoglu<br>MWF 12:00pm - 12:50pm<br>TuTh 3:00pm - 3:50pm | Seats (Total: 29)<br>ARM 0135<br>MTH B0425 | Discussion |
| 0411 | Anna Szczekutowicz<br>MWF 3:00pm - 3:50pm<br>TuTh 12:00pm - 12:50pm | Seats (Total: 29)<br>ESJ 0202<br>MTH 0201 | Discussion |
| 0412 | Anna Szczekutowicz<br>MWF 3:00pm - 3:50pm<br>TuTh 12:00pm - 12:50pm | Seats (Total: 29)<br>ESJ 0202<br>MTH 0307 | Discussion |
| 0421 | Anna Szczekutowicz<br>MWF 3:00pm - 3:50pm<br>TuTh 1:00pm - 1:50pm | Seats (Total: 29)<br>ESJ 0202<br>MTH 0201 | Discussion |
| 0422 | Anna Szczekutowicz<br>MWF 3:00pm - 3:50pm<br>TuTh 1:00pm - 1:50pm | Seats (Total: 29)<br>ESJ 0202<br>MTH 0307 | Discussion |
| 0431 | Anna Szczekutowicz<br>MWF 3:00pm - 3:50pm<br>TuTh 2:00pm - 2:50pm | Seats (Total: 29)<br>ESJ 0202<br>MTH 0101 | Discussion |
| 0441 | Anna Szczekutowicz<br>MWF 3:00pm - 3:50pm<br>TuTh 3:00pm - 3:50pm | Seats (Total: 29)<br>ESJ 0202<br>MTH 0201 | Discussion |
| FC01 | Mirna Pinsky<br>MWTh 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 30)<br>MTH 0405 | |

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|---|---|---|
| FC02 | Zhirui Li<br>MWTh 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 30)<br>MTH 0402 |
| FC03 | David Pincus<br>MWTh 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 30)<br>PHY 2124 |

**MATH141H** **Calculus II**

*Prerequisite: Minimum grade of C- in MATH140.*

*Continuation of MATH140, including techniques of integration, improper integrals, applications of integration (such as volumes, work, arc length, moments), inverse functions, exponential and logarithmic functions, sequences and series.*

For Honors College students only. Graphing calculators, or computers, etc., with software appropriate for graphing non-trivial functions and doing non-trivial calculations, will be needed.

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|---|---|---|
| 0101 | Sean Gruber<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 2:50pm | Seats (Total: 20)<br>MTH 0305<br>MTH 0305 |
| 0201 | Aristomenis Papadopoulos<br>MF 10:00am - 10:50am<br>W 10:00am - 11:50am | Seats (Total: 20)<br>MTH 0102<br>MTH 0102 |

**MATH206** **Introduction to Matlab**

*Prerequisite: 1 course with a minimum grade of C- from (MATH136, MATH140).*

*This course is intended to prepare students for subsequent courses requiring computation with MATLAB. Covers basics of MATLAB including simple commands, variables, solving equations, graphing differentiation and integration, matrices and vectors, functions, M-files and fundamentals of programming in the MATLAB environment. When offered in Winter and Summer terms, the course is offered in a format suitable for online distance learning.*

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|---|---|---|
| 0101 | Terence Long<br>**Meets August 26, 2024 - October 10, 2024**<br>Class time/details on ELMs | Seats (Total: 450)<br><br>ONLINE |

**MATH212** **Elements of Numbers and Operations**

*Prerequisite: Must have completed one year of college preparatory algebra. Restriction: Must be in one of the following programs (Early Childhood Education; Special Education; Elementary Education).*

*Reviews and extends topics of arithmetic and number theory related to the elementary school curriculum, particularly number systems and operations with natural numbers, integers, and rationals.*

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|---|---|---|---|
| 0101 | Joshua Himmelsbach<br>MWF 10:00am - 10:50am | Seats (Total: 25)<br>MTH 1308 | |
| 0401 | Mary Ziegler Zimmerman<br>MWF 2:00pm - 2:50pm | Seats (Total: 25)<br>MTH 0102 | |

**MATH213** **Elements of Geometry and Measurement**

*Prerequisite: MATH212. Restriction: Must be in one of the following programs (Early Childhood Education; Special Education; Elementary Education).*

*Properties of geometric objects in two and three dimensions; parallel lines, curves and polygons; ratio, proportion, similarity; transformational geometry and measurement, constructions, justifications and proofs.*

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|---|---|---|---|
| 0201 | Karen McLaren<br>MWF 10:00am - 10:50am | Seats (Total: 30)<br>MTH B0425 | |

**MATH214** **Elements of Probability and Statistics**

*Prerequisite: MATH212. Restriction: Must be in one of the following programs (Early Childhood Education; Special Education; Elementary Education).*

*Permutations and combinations; probability; collecting and representing data; using statistics to analyze and interpret data.*

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|---|---|---|---|
| 0201 | Karen McLaren<br>MWF 9:00am - 9:50am | Seats (Total: 25)<br>MTH 1311 | |

**MATH240** **Introduction to Linear Algebra**

*Prerequisite: 1 course with a minimum grade of C- from (MATH131, MATH141). Credit only granted for: MATH240, MATH341, or MATH461.*

*Basic concepts of linear algebra: vector spaces, applications to line and plane geometry, linear equations and matrices, similar matrices, linear transformations, eigenvalues, determinants and quadratic forms.*

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|---|---|---|---|
| 0111 | Wiseley Wong<br>MWF 10:00am - 10:50am<br>TuTh 12:00pm - 12:50pm | Seats (Total: 28)<br>ARM 0135<br>MTH B0427 | <br><br>Discussion |

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|---|---|---|---|
| 0112 | Wiseley Wong<br>MWF 10:00am - 10:50am<br>TuTh 12:00pm - 12:50pm | Seats (Total: 28)<br>ARM 0135<br>MTH 0403 | Discussion |
| 0121 | Wiseley Wong<br>MWF 10:00am - 10:50am<br>TuTh 1:00pm - 1:50pm | Seats (Total: 29)<br>ARM 0135<br>MTH B0427 | Discussion |
| 0122 | Wiseley Wong<br>MWF 10:00am - 10:50am<br>TuTh 1:00pm - 1:50pm | Seats (Total: 28)<br>ARM 0135<br>MTH 0403 | Discussion |
| 0131 | Wiseley Wong<br>MWF 10:00am - 10:50am<br>TuTh 2:00pm - 2:50pm | Seats (Total: 28)<br>ARM 0135<br>MTH B0427 | Discussion |
| 0132 | Wiseley Wong<br>MWF 10:00am - 10:50am<br>TuTh 2:00pm - 2:50pm | Seats (Total: 28)<br>ARM 0135<br>MTH 0407 | Discussion |
| 0141 | Wiseley Wong<br>MWF 10:00am - 10:50am<br>TuTh 3:00pm - 3:50pm | Seats (Total: 28)<br>ARM 0135<br>MTH B0427 | Discussion |
| 0142 | Wiseley Wong<br>MWF 10:00am - 10:50am<br>TuTh 3:00pm - 3:50pm | Seats (Total: 29)<br>ARM 0135<br>MTH 0407 | Discussion |
| 0211 | Shin Song<br>MWF 12:00pm - 12:50pm<br>TuTh 8:00am - 8:50am | Seats (Total: 28)<br>ARM 0131<br>MTH 0106 | Discussion |
| 0212 | Shin Song<br>MWF 12:00pm - 12:50pm<br>TuTh 8:00am - 8:50am | Seats (Total: 28)<br>ARM 0131<br>MTH 0403 | Discussion |
| 0221 | Shin Song<br>MWF 12:00pm - 12:50pm<br>TuTh 9:00am - 9:50am | Seats (Total: 28)<br>ARM 0131<br>MTH 0106 | Discussion |

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|---|---|---|---|
| 0222 | Shin Song<br>MWF 12:00pm - 12:50pm<br>TuTh 9:00am - 9:50am | Seats (Total: 28)<br>ARM 0131<br>MTH 0403 | <br><br>Discussion |
| 0231 | Shin Song<br>MWF 12:00pm - 12:50pm<br>TuTh 10:00am - 10:50am | Seats (Total: 29)<br>ARM 0131<br>MTH 0106 | <br><br>Discussion |
| 0232 | Shin Song<br>MWF 12:00pm - 12:50pm<br>TuTh 10:00am - 10:50am | Seats (Total: 28)<br>ARM 0131<br>MTH 0403 | <br><br>Discussion |
| 0241 | Shin Song<br>MWF 12:00pm - 12:50pm<br>TuTh 11:00am - 11:50am | Seats (Total: 28)<br>ARM 0131<br>MTH 0106 | <br><br>Discussion |
| 0242 | Shin Song<br>MWF 12:00pm - 12:50pm<br>TuTh 11:00am - 11:50am | Seats (Total: 28)<br>ARM 0131<br>MTH 0403 | <br><br>Discussion |
| 0311 | Allan Yashinski<br>MWF 2:00pm - 2:50pm<br>TuTh 11:00am - 11:50am | Seats (Total: 31)<br>ARM 0126<br>CHE 2136 | <br><br>Discussion |
| 0312 | Allan Yashinski<br>MWF 2:00pm - 2:50pm<br>TuTh 11:00am - 11:50am | Seats (Total: 29)<br>ARM 0126<br>MTH 1313 | <br><br>Discussion |
| 0321 | Allan Yashinski<br>MWF 2:00pm - 2:50pm<br>TuTh 12:00pm - 12:50pm | Seats (Total: 31)<br>ARM 0126<br>MTH 0303 | <br><br>Discussion |
| 0322 | Allan Yashinski<br>MWF 2:00pm - 2:50pm<br>TuTh 12:00pm - 12:50pm | Seats (Total: 29)<br>ARM 0126<br>MTH 1313 | <br><br>Discussion |
| 0331 | Allan Yashinski<br>MWF 2:00pm - 2:50pm<br>TuTh 1:00pm - 1:50pm | Seats (Total: 33)<br>ARM 0126<br>MTH 0303 | <br><br>Discussion |

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|---|---|---|---|
| 0332 | Allan Yashinski<br>MWF 2:00pm - 2:50pm<br>TuTh 1:00pm - 1:50pm | Seats (Total: 29)<br>ARM 0126<br>MTH 1313 | Discussion |
| 0341 | Allan Yashinski<br>MWF 2:00pm - 2:50pm<br>TuTh 2:00pm - 2:50pm | Seats (Total: 31)<br>ARM 0126<br>MTH 0201 | Discussion |
| 0342 | Allan Yashinski<br>MWF 2:00pm - 2:50pm<br>TuTh 2:00pm - 2:50pm | Seats (Total: 30)<br>ARM 0126<br>MTH 0405 | Discussion |
| 0411 | Raluca Rosca<br>MWF 3:00pm - 3:50pm<br>TuTh 8:00am - 8:50am | Seats (Total: 28)<br>ARM 0131<br>MTH 0401 | Discussion |
| 0422 | Raluca Rosca<br>MWF 3:00pm - 3:50pm<br>TuTh 9:00am - 9:50am | Seats (Total: 28)<br>ARM 0131<br>MTH 0401 | Discussion |
| 0432 | Raluca Rosca<br>MWF 3:00pm - 3:50pm<br>TuTh 10:00am - 10:50am | Seats (Total: 28)<br>ARM 0131<br>MTH 0401 | Discussion |
| 0441 | Raluca Rosca<br>MWF 3:00pm - 3:50pm<br>TuTh 11:00am - 11:50am | Seats (Total: 28)<br>ARM 0131<br>MTH 0401 | Discussion |

**MATH241** **Calculus III**

*Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH241 or MATH340.*

*Introduction to multivariable calculus, including vectors and vector-valued functions, partial derivatives and applications of partial derivatives (such as tangent planes and Lagrange multipliers), multiple integrals, volume, surface area, and the classical theorems of Green, Stokes and Gauss.*

All sections will use MATLAB.

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|---|---|---|---|
| 0111 | Matei Machedon<br>MWF 10:00am - 10:50am<br>TuTh 8:00am - 8:50am | Seats (Total: 29)<br>ARM 0131<br>MTH 0405 | Discussion |

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|---|---|---|---|
| 0112 | Matei Machedon<br>MWF 10:00am - 10:50am<br>TuTh 8:00am - 8:50am | Seats (Total: 29)<br>ARM 0131<br>MTH B0429 | Discussion |
| 0121 | Matei Machedon<br>MWF 10:00am - 10:50am<br>TuTh 9:00am - 9:50am | Seats (Total: 29)<br>ARM 0131<br>MTH 0405 | Discussion |
| 0122 | Matei Machedon<br>MWF 10:00am - 10:50am<br>TuTh 9:00am - 9:50am | Seats (Total: 29)<br>ARM 0131<br>MTH B0429 | Discussion |
| 0131 | Matei Machedon<br>MWF 10:00am - 10:50am<br>TuTh 10:00am - 10:50am | Seats (Total: 29)<br>ARM 0131<br>MTH 0405 | Discussion |
| 0132 | Matei Machedon<br>MWF 10:00am - 10:50am<br>TuTh 10:00am - 10:50am | Seats (Total: 29)<br>ARM 0131<br>MTH B0429 | Discussion |
| 0141 | Matei Machedon<br>MWF 10:00am - 10:50am<br>TuTh 11:00am - 11:50am | Seats (Total: 29)<br>ARM 0131<br>MTH 0405 | Discussion |
| 0142 | Matei Machedon<br>MWF 10:00am - 10:50am<br>TuTh 11:00am - 11:50am | Seats (Total: 29)<br>ARM 0131<br>MTH B0429 | Discussion |
| 0211 | Clarke Safsten<br>MWF 11:00am - 11:50am<br>TuTh 8:00am - 8:50am | Seats (Total: 29)<br>ARM 0135<br>MTH 0307 | Discussion |
| 0212 | Clarke Safsten<br>MWF 11:00am - 11:50am<br>TuTh 8:00am - 8:50am | Seats (Total: 29)<br>ARM 0135<br>MTH 0303 | Discussion |
| 0221 | Clarke Safsten<br>MWF 11:00am - 11:50am<br>TuTh 9:00am - 9:50am | Seats (Total: 29)<br>ARM 0135<br>MTH 0307 | Discussion |

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|---|---|---|---|
| 0222 | Clarke Safsten<br>MWF 11:00am - 11:50am<br>TuTh 9:00am - 9:50am | Seats (Total: 29)<br>ARM 0135<br>MTH 0303 | Discussion |
| 0231 | Clarke Safsten<br>MWF 11:00am - 11:50am<br>TuTh 10:00am - 10:50am | Seats (Total: 29)<br>ARM 0135<br>MTH 0307 | Discussion |
| 0241 | Clarke Safsten<br>MWF 11:00am - 11:50am<br>TuTh 11:00am - 11:50am | Seats (Total: 29)<br>ARM 0135<br>MTH 0307 | Discussion |
| 0311 | James Conway<br>MWF 12:00pm - 12:50pm<br>TuTh 12:00pm - 12:50pm | Seats (Total: 29)<br>ARM 0126<br>BPS 1228 | Discussion |
| 0312 | James Conway<br>MWF 12:00pm - 12:50pm<br>TuTh 12:00pm - 12:50pm | Seats (Total: 29)<br>ARM 0126<br>MTH 0405 | Discussion |
| 0321 | James Conway<br>MWF 12:00pm - 12:50pm<br>TuTh 1:00pm - 1:50pm | Seats (Total: 27)<br>ARM 0126<br>BPS 1228 | Discussion |
| 0322 | James Conway<br>MWF 12:00pm - 12:50pm<br>TuTh 1:00pm - 1:50pm | Seats (Total: 29)<br>ARM 0126<br>MTH 0405 | Discussion |
| 0331 | James Conway<br>MWF 12:00pm - 12:50pm<br>TuTh 2:00pm - 2:50pm | Seats (Total: 31)<br>ARM 0126<br>MTH 0303 | Discussion |
| 0332 | James Conway<br>MWF 12:00pm - 12:50pm<br>TuTh 2:00pm - 2:50pm | Seats (Total: 28)<br>ARM 0126<br>ATL 1109 | Discussion |
| 0341 | James Conway<br>MWF 12:00pm - 12:50pm<br>TuTh 3:00pm - 3:50pm | Seats (Total: 31)<br>ARM 0126<br>MTH 0303 | Discussion |

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| 0342 | James Conway<br>MWF 12:00pm - 12:50pm<br>TuTh 3:00pm - 3:50pm | Seats (Total: 28)<br>ARM 0126<br>ATL 1109 | Discussion |
| 0411 | Patrick Brosnan<br>MWF 1:00pm - 1:50pm<br>TuTh 8:00am - 8:50am | Seats (Total: 29)<br>ARM 0126<br>MTH 0201 | Discussion |
| 0412 | Patrick Brosnan<br>MWF 1:00pm - 1:50pm<br>TuTh 8:00am - 8:50am | Seats (Total: 29)<br>ARM 0126<br>MTH 0409 | Discussion |
| 0421 | Patrick Brosnan<br>MWF 1:00pm - 1:50pm<br>TuTh 9:00am - 9:50am | Seats (Total: 29)<br>ARM 0126<br>MTH 0201 | Discussion |
| 0422 | Patrick Brosnan<br>MWF 1:00pm - 1:50pm<br>TuTh 9:00am - 9:50am | Seats (Total: 29)<br>ARM 0126<br>MTH 0409 | Discussion |
| 0431 | Patrick Brosnan<br>MWF 1:00pm - 1:50pm<br>TuTh 10:00am - 10:50am | Seats (Total: 29)<br>ARM 0126<br>MTH 0201 | Discussion |
| 0441 | Patrick Brosnan<br>MWF 1:00pm - 1:50pm<br>TuTh 11:00am - 11:50am | Seats (Total: 29)<br>ARM 0126<br>MTH 0201 | Discussion |
| 0511 | Ling Liang<br>MWF 3:00pm - 3:50pm<br>TuTh 12:00pm - 12:50pm | Seats (Total: 29)<br>ARM 0126<br>MTH B0429 | Discussion |
| 0521 | Ling Liang<br>MWF 3:00pm - 3:50pm<br>TuTh 1:00pm - 1:50pm | Seats (Total: 29)<br>ARM 0126<br>MTH B0429 | Discussion |
| 0531 | Ling Liang<br>MWF 3:00pm - 3:50pm<br>TuTh 2:00pm - 2:50pm | Seats (Total: 29)<br>ARM 0126<br>MTH B0429 | Discussion |

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| 0541 | Ling Liang<br>MWF 3:00pm - 3:50pm<br>TuTh 3:00pm - 3:50pm | Seats (Total: 29)<br>ARM 0126<br>MTH B0429 | <br><br>Discussion |
| FC01 | David Pincus<br>MWTh 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 45)<br>PHY 2106 | |

**MATH241H** **Calculus III**

*Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH241 or MATH340.*

*Introduction to multivariable calculus, including vectors and vector-valued functions, partial derivatives and applications of partial derivatives (such as tangent planes and Lagrange multipliers), multiple integrals, volume, surface area, and the classical theorems of Green, Stokes and Gauss.*

For general honors students only. MATH241H will use MATLAB.

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|---|---|---|---|
| 0101 | Jeffrey Kuan<br>MF 10:00am - 10:50am<br>W 10:00am - 11:50am | Seats (Total: 27)<br>MTH 0106<br>MTH 0106 | |
| 0201 | Junyan Zhao<br>MF 11:00am - 11:50am<br>W 11:00am - 12:50pm | Seats (Total: 28)<br>MTH 0103<br>MTH 0103 | |
| 0301 | Jiwoong Jang<br>MF 1:00pm - 1:50pm<br>W 1:00pm - 2:50pm | Seats (Total: 28)<br>MTH 0201<br>MTH 0201 | |

**MATH243** **Introduction to Linear Algebra and Differential Equations**

*Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: ENEE290 or MATH243. Additional information: Does not satisfy requirements for the Mathematics or Computer Science major. Does not satisfy prerequisite requirements for courses requiring MATH240 or MATH246.*

*The basics of linear algebra and differential equations, with an emphasis on general physical and engineering applications. Aimed at students who need the material for future coursework but do not need as much depth and rigor as provided by MATH240 and MATH246.*

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|---|---|---|---|
| 0111 | Terence Long<br>MWF 3:00pm - 3:50pm<br>TuTh 11:00am - 11:50am | Seats (Total: 25)<br>PHY 1201<br>MTH B0425 | <br><br>Discussion |

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|---|---|---|---|
| 0141 | Terence Long<br>MWF 3:00pm - 3:50pm<br>TuTh 3:00pm - 3:50pm | Seats (Total: 25)<br>PHY 1201<br>MTH B0423 | Discussion |

**MATH246** **Differential Equations for Scientists and Engineers**

*Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH246 or MATH341.*

*An introduction to the basic methods of solving ordinary differential equations. Equations of first and second order, linear differential equations, Laplace transforms, numerical methods and the qualitative theory of differential equations.*

All sections will use MATLAB.

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|---|---|---|---|
| 0101 | Arnaja Mitra<br>MWF 3:00pm - 3:50pm | Seats (Total: 50)<br>HJP 2242 | |
| 0211 | James Conway<br>TuTh 11:00am - 12:15pm<br>W 8:00am - 8:50am | Seats (Total: 28)<br>ARM 0135<br>MTH 0201 | Discussion |
| 0212 | James Conway<br>TuTh 11:00am - 12:15pm<br>W 8:00am - 8:50am | Seats (Total: 28)<br>ARM 0135<br>MTH 0302 | Discussion |
| 0221 | James Conway<br>TuTh 11:00am - 12:15pm<br>W 9:00am - 9:50am | Seats (Total: 30)<br>ARM 0135<br>MTH 0201 | Discussion |
| 0222 | James Conway<br>TuTh 11:00am - 12:15pm<br>W 9:00am - 9:50am | Seats (Total: 28)<br>ARM 0135<br>MTH 0302 | Discussion |
| 0231 | James Conway<br>TuTh 11:00am - 12:15pm<br>W 10:00am - 10:50am | Seats (Total: 28)<br>ARM 0135<br>MTH 0201 | Discussion |
| 0232 | James Conway<br>TuTh 11:00am - 12:15pm<br>W 10:00am - 10:50am | Seats (Total: 28)<br>ARM 0135<br>MTH 0302 | Discussion |
| 0241 | James Conway<br>TuTh 11:00am - 12:15pm<br>W 11:00am - 11:50am | Seats (Total: 28)<br>ARM 0135<br>MTH 0201 | Discussion |

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|---|---|---|---|
| 0242 | James Conway<br>TuTh 11:00am - 12:15pm<br>W 11:00am - 11:50am | Seats (Total: 28)<br>ARM 0135<br>MTH 0302 | Discussion |
| 0311 | Antoine Mellet<br>TuTh 2:00pm - 3:15pm<br>F 9:00am - 9:50am | Seats (Total: 28)<br>ARM 0131<br>MTH 0201 | Discussion |
| 0312 | Antoine Mellet<br>TuTh 2:00pm - 3:15pm<br>F 9:00am - 9:50am | Seats (Total: 28)<br>ARM 0131<br>MTH 0303 | Discussion |
| 0321 | Antoine Mellet<br>TuTh 2:00pm - 3:15pm<br>F 10:00am - 10:50am | Seats (Total: 28)<br>ARM 0131<br>MTH 0201 | Discussion |
| 0322 | Antoine Mellet<br>TuTh 2:00pm - 3:15pm<br>F 10:00am - 10:50am | Seats (Total: 28)<br>ARM 0131<br>MTH 0303 | Discussion |
| 0331 | Antoine Mellet<br>TuTh 2:00pm - 3:15pm<br>F 11:00am - 11:50am | Seats (Total: 28)<br>ARM 0131<br>MTH 0201 | Discussion |
| 0332 | Antoine Mellet<br>TuTh 2:00pm - 3:15pm<br>F 11:00am - 11:50am | Seats (Total: 28)<br>ARM 0131<br>MTH 0303 | Discussion |
| 0341 | Antoine Mellet<br>TuTh 2:00pm - 3:15pm<br>F 12:00pm - 12:50pm | Seats (Total: 28)<br>ARM 0131<br>MTH 0201 | Discussion |
| 0342 | Antoine Mellet<br>TuTh 2:00pm - 3:15pm<br>F 12:00pm - 12:50pm | Seats (Total: 28)<br>ARM 0131<br>MTH 0303 | Discussion |
| 0501 | Lawrence Washington, Alice Wang<br>TuTh 9:30am - 10:45am | Seats (Total: 27)<br>CSI 1121 | |

**MATH246H** **Differential Equations for Scientists and Engineers**

*Prerequisite: Minimum grade of C- in MATH141. Credit only granted for: MATH246 or MATH341.*

*An introduction to the basic methods of solving ordinary differential equations. Equations of first and second order, linear differential equations, Laplace transforms, numerical methods and the qualitative theory of differential equations.*

For general honors students only. MATH241H will use MATLAB.

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| 0101 | Rodrigo Trevino<br>TuTh 9:30am - 10:45am | Seats (Total: 20)<br>MTH 0411 |

**MATH274** **History of Mathematics**

*Prerequisite: MATH120, MATH130, MATH136, or MATH140; or must have completed MATH220.*

*An overview of aspects in the history of mathematics from its beginning in the concrete problem solving of ancient times through the development of abstraction in the 19th and 20th centuries. The course considers both mathematical ideas and the context in which they developed in various civilizations around the world.*

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|---|---|---|
| 0101 | Rodrigo Trevino<br>TuTh 11:00am - 12:15pm | Seats (Total: 20)<br>CHM 1228 |

**MATH299A** **Selected Topics in Mathematics; Special Topics in Study Abroad II: Introduction to Mathematical Computing**

*Topics of special interest under the general guidance of the departmental committee on undergraduate studies.*

**Contact department for information to register for this course.**

**MATH299B** **Selected Topics in Mathematics; Putnam Express**

*Topics of special interest under the general guidance of the departmental committee on undergraduate studies.*

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| 0101 | Roohollah Ebrahimian<br>W 4:00pm - 5:30pm | Seats (Total: 25)<br>MTH B0425 |

**MATH310** **Introduction to Mathematical Proof**

*Prerequisite: Minimum grade of C- in MATH141; and must have completed or be concurrently enrolled in MATH240, MATH341, or MATH461; and must have completed or be concurrently enrolled in MATH241 or MATH340. Restriction: Must be in a major within the CMNS-Mathematics department; or permission of the CMNS-Mathematics department. Additional information: Math majors may not use this course to satisfy an upper-level requirement.*

*To develop the students' ability to construct a rigorous proof of a mathematical claim. Students will also be made aware of mathematical results that are of interest to those wishing to analyze a particular mathematical model. Topics will be drawn from logic, set theory, structure of the number line, elementary topology, metric spaces, functions, sequences and continuity.*

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|---|---|---|
| 0101 | Kathryn Truman<br>MWF 10:00am - 10:50am | Seats (Total: 35)<br>PHY 2106 |
| 0201 | Kendall Williams<br>MWF 12:00pm - 12:50pm | Seats (Total: 34)<br>MTH 0306 |

**MATH312** **Mathematical Reasoning and Proof for Pre-Service Middle School Teachers**

*Prerequisite: MATH212 and MATH213. Restriction: Must be in one of the following programs (Elementary Education; Special Education; Middle School Education).*

*Reasoning and proof as addressed in the middle school curriculum. Topics include proportional reasoning, logic and proof, types of numbers, field axioms, Euclidean and non-Euclidean geometry.*

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| 0101 | Joshua Himmelsbach<br>TuTh 12:30pm - 1:45pm | Seats (Total: 20)<br>EGR 0135 |

**MATH315** **Algebra for Preservice Middle School Teachers**

*Prerequisite: MATH212. Restriction: Must be in one of the following programs (Elementary Education; Special Education; Middle School Education). Credit only granted for: MATH113 or MATH315.*

*Algebraic concepts and techniques developed in the middle grades, with their larger mathematical context. Equations, inequalities and functions (linear, polynomial, exponential, logarithmic), with multiple representations of relationships. Common misconceptions of beginning algebra students.*

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| 0101 | Carolina Napp-Avelli<br>MW 2:00pm - 3:15pm | Seats (Total: 20)<br>ESJ B0320 |

**MATH340** **Multivariable Calculus, Linear Algebra and Differential Equations I (Honors)**

(Perm req)

*Prerequisite: MATH141 and MATH140; and permission of CMNS-Mathematics department; and permission will be granted only to incoming freshmen. Credit only granted for: MATH241 or MATH340.*

*First semester of the MATH340-341 sequence which gives a unified and enriched treatment of multivariable calculus, linear algebra and ordinary differential equations, with supplementary material from subjects such as differential geometry, Fourier series and calculus of variations. Students completing MATH340-341 will have covered the material of MATH240, MATH241, and MATH246, and may not also receive credit for MATH240, MATH241 or MATH246.*

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|---|---|---|
| 0101 | Niranjan Ramachandran<br>MWF 10:00am - 11:15am | Seats (Total: 39)<br>MTH B0421 |
| 0201 | Roohollah Ebrahimian<br>MWF 12:00pm - 1:15pm | Seats (Total: 38)<br>MTH B0421 |

**MATH386** **Experiential Learning**

(Perm req)

*Prerequisite: Must have learning proposal approved by the CMNS Mathematics Department.*

**Contact department for information to register for this course.**

**MATH401** **Applications of Linear Algebra**

*Prerequisite: 1 course with a minimum grade of C- from (MATH461, MATH240, MATH341).*

*Various applications of linear algebra: theory of finite games, linear programming, matrix methods as applied to finite Markov chains, random walk, incidence matrices, graphs and directed graphs, networks and transportation problems.*

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|---|---|---|
| 0101 | Allan Yashinski<br>MWF 10:00am - 10:50am | Seats (Total: 36)<br>PHY 2124 |
| 0201 | Raluca Rosca<br>MWF 11:00am - 11:50am | Seats (Total: 36)<br>PHY 2124 |
| 0301 | Wiseley Wong<br>MWF 12:00pm - 12:50pm | Seats (Total: 36)<br>PHY 2124 |
| 0401 | Shin Song<br>MWF 2:00pm - 2:50pm | Seats (Total: 36)<br>PHY 2124 |
| 0501 | Yanir Rubinstein<br>TuTh 2:00pm - 3:15pm | Seats (Total: 34)<br>PHY 1219 |
| 0601 | Vadim Kaloshin<br>TuTh 12:30pm - 1:45pm | Seats (Total: 36)<br>PHY 2213 |
| 0701 | Panagiotis Dimakis<br>MWF 12:00pm - 12:50pm | Seats (Total: 36)<br>PHY 2211 |

**MATH402** **Algebraic Structures**

*Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461). Restriction: Must not be in any of the following programs (Mathematics (Master's); Mathematics (Doctoral)). Credit only granted for: MATH402 or MATH403.*

*For students having only limited experience with rigorous mathematical proofs. Parallels MATH403. Students planning graduate work in mathematics should take MATH403. Groups, rings, integral domains and fields, detailed study of several groups; properties of integers and polynomials. Emphasis is on the origin of the mathematical ideas studied and the logical structure of the subject.*

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|---|---|---|
| 0101 | James Conway<br>MWF 10:00am - 10:50am | Seats (Total: 30)<br>MTH 0403 |

**MATH403** **Introduction to Abstract Algebra**

*Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH340); and 1 course with a minimum grade of C- from (MATH341, MATH241); and minimum grade of C- in MATH310. Or students who have taken courses with comparable content may contact the department. Credit only granted for: MATH402 or MATH403.*

*Integers; groups, rings, integral domains, fields.*

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|---|---|---|
| 0101 | Jonathan Rosenberg<br>MWF 11:00am - 11:50am | Seats (Total: 33)<br>PHY 2208 |
| 0201 | Qendrim Gashi<br>TuTh 9:30am - 10:45am | Seats (Total: 32)<br>KEB 1200 |

**MATH405** **Linear Algebra**

*Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and minimum grade of C- in MATH310.*

*An abstract treatment of finite dimensional vector spaces. Linear transformations and their invariants.*

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|---|---|---|
| 0101 | Terence Long<br>MWF 1:00pm - 1:50pm | Seats (Total: 32)<br>EGR 2154 |
| 0201 | Harry Tamvakis<br>TuTh 9:30am - 10:45am | Seats (Total: 32)<br>PHY 2213 |
| 0301 | Peter Dillery<br>MWF 1:00pm - 1:50pm | Seats (Total: 32)<br>PLS 1111 |

**MATH406** **Introduction to Number Theory**

*Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH241, MATH246, MATH340, MATH341, MATH461); or permission of CMNS-Mathematics department.*

*Integers, divisibility, prime numbers, unique factorization, congruences, quadratic reciprocity, Diophantine equations and arithmetic functions.*

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|---|---|---|
| 0101 | Dong Quan Nguyen<br>MWF 9:00am - 9:50am | Seats (Total: 33)<br>TMH 0225 |

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|---|---|---|
| 0201 | Thomas Haines<br>MWF 11:00am - 11:50am | Seats (Total: 33)<br>PHY 2213 |
| 0301 | Christian Zickert<br>TuTh 9:30am - 10:45am | Seats (Total: 30)<br>PHY 2124 |

**MATH410** **Advanced Calculus I**

(Perm req)

*Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241); and minimum grade of C- in MATH310.*

*Subjects covered: sequences and series of numbers, continuity and differentiability of real-valued functions of one variable, the Riemann integral, sequences of functions and power series.*

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|---|---|---|
| 0101 | Anna Szczekutowicz<br>MWF 10:00am - 10:50am | Seats (Total: 36)<br>PHY 2211 |
| 0201 | Roy Joshua<br>MWF 11:00am - 11:50am | Seats (Total: 34)<br>PHY 2211 |
| 0301 | Manoussos Grillakis<br>MWF 12:00pm - 12:50pm | Seats (Total: 36)<br>PHY 2106 |
| 0401 | Clarke Safsten<br>MWF 1:00pm - 1:50pm | Seats (Total: 36)<br>PHY 2124 |
| 0501 | Huy Nguyen<br>TuTh 11:00am - 12:15pm | Seats (Total: 36)<br>PHY 2208 |
| 0601 | Arka Adhikari<br>TuTh 12:30pm - 1:45pm | Seats (Total: 34)<br>EGR 1104 |
| 0701 | Jaime Paradela Diaz<br>MWF 10:00am - 10:50am | Seats (Total: 34)<br>MTH 0306 |

**MATH411** **Advanced Calculus II**

(Perm req)

*Prerequisite: Minimum grade of C- in MATH410; and permission of CMNS-Mathematics department.*

*Continuation of MATH410. Topics include: The topology of sets in Rn, the derivative matrix, the general chain rule, inverse and implicit function theorems with applications, smooth curves and surfaces in R3, Lagrange multipliers. Additional topics may include: Metric spaces, the contraction principle, the existence and uniqueness theorem for nonlinear first order differential equations, the Riemann integral of Rn, introduction to integration on curves and surfaces, Green's theorem.*

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|---|---|---|
| 0101 | Matei Machedon<br>MWF 12:00pm - 12:50pm | Seats (Total: 33)<br>PHY 2208 |
| 0201 | Ricardo Nochetto<br>TuTh 11:00am - 12:15pm | Seats (Total: 30)<br>MTH 0105 |

**MATH416** **Applied Harmonic Analysis: An Introduction to Signal Processing**

*Prerequisite: Minimum grade of C- in MATH141; and 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and familiarity with MATLAB is required.*

*Introduces students to the mathematical concepts arising in signal analysis from the applied harmonic analysis point of view. Topics include applied linear algebra, Fourier series, discrete Fourier transform, Fourier transform, Shannon Sampling Theorem, wavelet bases, multiresolution analysis, and discrete wavelet transform.*

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| 0101 | Wojciech Czaja<br>MWF 10:00am - 10:50am | Seats (Total: 36)<br>MTH 0405 |

**MATH424** **Introduction to the Mathematics of Finance**

(Perm req)

*Prerequisite: Minimum grade of C- in MATH141; and 1 course with a minimum grade of C- from (STAT400, STAT410); and permission of CMNS-Mathematics department. Recommended: MATH246, MATH240, MATH241, MATH340, or MATH341. Credit only granted for: BMGT444, MATH424.*

*Introduction to the mathematical models used in finance and economics with emphasis on pricing derivative instruments. Designed for students in mathematics, computer science, engineering, finance and physics. Financial markets and instruments; elements from basic probability theory; interest rates and present value analysis; normal distribution of stock returns; option pricing; arbitrage pricing theory; the multiperiod binomial model; the Black-Scholes option pricing formula; proof of the Black-Scholes option pricing formula and applications; trading and hedging of options; Delta hedging; utility functions and portfolio theory; elementary stochastic calculus; Ito's Lemma; the Black-Scholes equation and its conversion to the heat equation.*

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|---|---|---|
| 0101 | Steven Chadwick<br>MWF 1:00pm - 1:50pm | Seats (Total: 33)<br>PHY 2208 |

**MATH430** **Euclidean and Non-Euclidean Geometries**

*Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461).*

*Hilbert's axioms for Euclidean geometry. Neutral geometry: the consistency of the hyperbolic parallel postulate and the inconsistency of the elliptic parallel postulate with neutral geometry. Models of hyperbolic geometry. Existence and properties of isometries.*

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| 0101 | James Conway | Seats (Total: 33) |
| | MWF 1:00pm - 1:50pm | PHY 2211 |

**MATH431** **Geometry for Computer Applications**

*Prerequisite: 1 course with a minimum grade of C- from (MATH461, MATH240, MATH341).*

*Topics from projective geometry and transformation geometry, emphasizing the two-dimensional representation of three-dimensional objects and objects moving about in the plane and space. The emphasis will be on formulas and algorithms of immediate use in computer graphics.*

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| 0101 | William Goldman | Seats (Total: 35) |
| | TuTh 11:00am - 12:15pm | PHY 2124 |

**MATH432** **Introduction to Topology**

*Prerequisite: Minimum grade of C- in MATH410.*

*Metric spaces, topological spaces, connectedness, compactness (including Heine-Borel and Bolzano-Weierstrass theorems), Cantor sets, continuous maps and homeomorphisms, fundamental group (homotopy, covering spaces, the fundamental theorem of algebra, Brouwer fixed point theorem), surfaces (e.g., Euler characteristic, the index of a vector field, hairy sphere theorem), elements of combinatorial topology (graphs and trees, planarity, coloring problems).*

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| 0101 | Steven Chadwick | Seats (Total: 30) |
| | MWF 10:00am - 10:50am | PHY 2208 |

**MATH436** **Differential Geometry of Curves and Surfaces I**

*Prerequisite: 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (MATH461, MATH240, MATH341); and must have completed two 400-level MATH courses with a minimum grade of C- (not including MATH461, and 480's).*

*Curves in the plane and Euclidean space, moving frames, surfaces in Euclidean space, orientability of surfaces; Gaussian and mean curvatures; surfaces of revolution, ruled surfaces, minimal surfaces, special curves on surfaces, "Theorema Egregium"; the intrinsic geometry of surfaces.*

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| 0101 | Richard Wentworth | Seats (Total: 30) |
| | TuTh 2:00pm - 3:15pm | PHY 2211 |

**MATH445** **Elementary Mathematical Logic**

*Prerequisite: Minimum grade of C- in MATH141.*

*Elementary development of propositional and predicate logic, including semantics and deductive systems and with a discussion of completeness, incompleteness and the decision problem.*

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| 0101 | Jenna Zomback<br>TuTh 11:00am - 12:15pm | Seats (Total: 25)<br>LEF 2166 | |

**MATH456** **Cryptography**

(Perm req)

*Prerequisite: (CMSC106, CMSC131, or ENEE150; or equivalent programming experience); and (2 courses from (CMSC330, CMSC351, ENEE324, or ENEE380); or any one of these courses and a 400-level MATH course, or two 400-level MATH courses); and Permission of CMNS-Mathematics department or permission of instructor. Cross-listed with: CMSC456, ENEE456. Credit only granted for: MATH456, CMSC456 or ENEE456.*

*The theory, application, and implementation of mathematical techniques used to secure modern communications. Topics include symmetric and public-key encryption, message integrity, hash functions, block-cipher design and analysis, number theory, and digital signatures.*

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|---|---|---|---|
| 0101 | Todd Rowland<br>MWF 12:00pm - 12:50pm | Seats (Total: 55)<br>CSI 1115 | |
| 0301 | Allan Yashinski<br>MWF 12:00pm - 12:50pm | Seats (Total: 40)<br>BPS 1238 | |

**MATH461** **Linear Algebra for Scientists and Engineers**

*Prerequisite: Minimum grade of C- in MATH141; and must have completed a MATH or STAT course with a prerequisite of MATH141. Credit only granted for: MATH240, MATH341, or MATH461. Additional information: This course may not be used towards the upper level math requirements for MATH/STAT majors.*

*Basic concepts of linear algebra. This course is similar to MATH240, but with more extensive coverage of the topics needed in applied linear algebra: change of basis, complex eigenvalues, diagonalization, the Jordan canonical form.*

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| 0111 | Hatice Sahinoglu<br>MWF 1:00pm - 1:50pm<br>Tu 1:00pm - 1:50pm | Seats (Total: 26)<br>ARM 0135<br>MTH 0302 | <br><br>Discussion |
| 0112 | Hatice Sahinoglu<br>MWF 1:00pm - 1:50pm<br>Tu 1:00pm - 1:50pm | Seats (Total: 26)<br>ARM 0135<br>MTH 0401 | <br><br>Discussion |

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|---|---|---|---|
| 0113 | Hatice Sahinoglu<br>MWF 1:00pm - 1:50pm<br>Tu 1:00pm - 1:50pm | Seats (Total: 26)<br>ARM 0135<br>MTH 0411 | Discussion |
| 0121 | Hatice Sahinoglu<br>MWF 1:00pm - 1:50pm<br>Tu 2:00pm - 2:50pm | Seats (Total: 26)<br>ARM 0135<br>MTH 0302 | Discussion |
| 0122 | Hatice Sahinoglu<br>MWF 1:00pm - 1:50pm<br>Tu 2:00pm - 2:50pm | Seats (Total: 26)<br>ARM 0135<br>MTH 0401 | Discussion |
| 0123 | Hatice Sahinoglu<br>MWF 1:00pm - 1:50pm<br>Tu 2:00pm - 2:50pm | Seats (Total: 26)<br>ARM 0135<br>MTH 0411 | Discussion |
| 0131 | Hatice Sahinoglu<br>MWF 1:00pm - 1:50pm<br>Tu 3:00pm - 3:50pm | Seats (Total: 26)<br>ARM 0135<br>MTH 0302 | Discussion |

**MATH462** **Partial Differential Equations**

*Prerequisite: 1 course with a minimum grade of C- from (MATH241, MATH340); and 1 course with a minimum grade of C- from (MATH246, MATH341).*

*Linear spaces and operators, orthogonality, Sturm-Liouville problems and eigenfunction expansions for ordinary differential equations. Introduction to partial differential equations, including the heat equation, wave equation and Laplace's equation. Boundary value problems, initial value problems and initial-boundary value problems.*

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|---|---|---|
| 0201 | Ricardo Nochetto<br>TuTh 2:00pm - 3:15pm | Seats (Total: 25)<br>PHY 2213 |

**MATH463** **Complex Variables**

*Prerequisite: 1 course with a minimum grade of C- from (MATH241, MATH340).*

*The algebra of complex numbers, analytic functions, mapping properties of the elementary functions. Cauchy integral formula. Theory of residues and application to evaluation of integrals. Conformal mapping.*

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|---|---|---|
| 0101 | Patrick Brosnan<br>MWF 10:00am - 10:50am | Seats (Total: 30)<br>PHY 2122 |

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|---|---|---|
| 0201 | Antoine Mellet | Seats (Total: 33) |
| | TuTh 11:00am - 12:15pm | JMP 1202 |

**MATH464** **Transform Methods**

*Prerequisite: 1 course with a minimum grade of C- from (MATH246, MATH341).*

*Fourier transform, Fourier series, discrete fast Fourier transform (DFT and FFT). Laplace transform. Poisson summations, and sampling. Optional Topics: Distributions and operational calculus, PDEs, Wavelet transform, Radon transform and applications such as Imaging, Speech Processing, PDEs of Mathematical Physics, Communications, Inverse Problems.*

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|---|---|---|
| 0101 | Shiferaw Berhanu | Seats (Total: 25) |
| | MWF 1:00pm - 1:50pm | MTH 1311 |

**MATH475** **Combinatorics and Graph Theory**

(Perm req)

*Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH341, MATH461); and 1 course with a minimum grade of C- from (MATH241, MATH340); and permission of CMNS-Mathematics department. Cross-listed with CMSC475. Credit only granted for: MATH475 or CMSC475.*

*General enumeration methods, difference equations, generating functions. Elements of graph theory, matrix representations of graphs, applications of graph theory to transport networks, matching theory and graphical algorithms.*

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|---|---|---|
| 0101 | Wiseley Wong | Seats (Total: 33) |
| | MWF 1:00pm - 1:50pm | CHM 2201 |

**MATH487** **Number for Middle Grades Teachers**

*Prerequisite: Must have admission to M.A. or M.Ed. with concentration in Mathematics Education; or permission of CMNS-Mathematics department. Restriction: This course may not be used towards the upper level math requirements for the MATH/STAT major. Credit only granted for: MATH487 or MATH498K. Formerly: MATH498K.*

*The rational number and proportional reasoning concepts developed in the middle grades and the larger mathematical context for these. Multiple representations of relationships, including verbal descriptions, diagrams, tables, graphs, and equations. Common misconceptions.*

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| PVL1 | Karen McLaren<br>**Meets August 26, 2024 - December 11, 2024**<br>Tu 5:00pm - 7:45pm | Seats (Total: 20)<br><br>BLD4 3335 |

*Must be in Curriculum and Instruction (M.Ed.), MCMM to register. Golden ID students are not eligible for this section.*

**MATH489** **Research Interactions in Mathematics; Research Interactions in Mathematics**

(Perm req)

*Students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) mathematics research group. Format varies. Students and supervising faculty will agree to a contract which must be approved by the department. Up to three credits of MATH489 may be applied to the mathematics degree requirements. See the department's MATH489 online syllabus for further information.*

**Contact department for information to register for this course.**

**MATH498A** **Selected Topics in Mathematics**

(Perm req)

*Topics of special interest to advanced undergraduate students will be offered occasionally under the general guidance of the departmental committee on undergraduate studies.*

**Contact department for information to register for this course.**

**MATH600** **Abstract Algebra I**

*Prerequisite: MATH405 and MATH403; or students who have taken courses with comparable content may contact the department.*

*Groups with operators, homomorphism and isomorphism theorems, normal series, Sylow theorems, free groups, Abelian groups, rings, integral domains, fields, modules. Topics may include HOM (A,B), Tensor products, exterior algebra.*

Offered fall only.

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|---|---|---|
| 0101 | Roohollah Ebrahimian<br>MWF 2:00pm - 2:50pm | Seats (Total: 30)<br>PHY 2211 |

**MATH606** **Algebraic Geometry I**

*Prerequisite: MATH600 and MATH601.*

*Prime and primary ideals in Noetherian rings, Hilbert Nullstellensatz, places and valuations, prevarieties (in the sense of Serre), dimension, morphisms, singularities, varieties, schemes, rationality.*

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| 0101 | Dori Bejleri<br>TuTh 2:00pm - 3:15pm | Seats (Total: 20)<br>MTH B0431 |

**MATH620** **Algebraic Number Theory I**

*Prerequisite: MATH601.*

*Algebraic numbers and algebraic integers, algebraic number fields of finite degree, ideals and units, fundamental theorem of algebraic number theory, theory of residue classes, Minkowski's theorem on linear forms, class numbers, Dirichlet's theorem on units, relative algebraic number fields, decomposition group, inertia group and ramification group of prime ideals with respect to a relatively Galois extension.*

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|---|---|---|
| 0101 | Harry Tamvakis | Seats (Total: 25) |
| | TuTh 12:30pm - 1:45pm | MTH 1311 |

**MATH630** **Real Analysis I**

*Prerequisite: MATH411; or students who have taken courses with comparable content may contact the department.*

*Lebesgue measure and the Lebesgue integral on R, differentiation of functions of bounded variation, absolute continuity and fundamental theorem of calculus, Lp spaces on R, Riesz-Fischer theorem, bounded linear functionals on Lp, measure and outer measure, Fubini's theorem.*

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|---|---|---|
| 0101 | Manoussos Grillakis | Seats (Total: 25) |
| | MWF 10:00am - 10:50am | PHY 2213 |

**MATH632** **Functional Analysis**

*Prerequisite: MATH631.*

*Introduction to functional analysis and operator theory: normed linear spaces, basic principles of functional analysis, bounded linear operators on Hilbert spaces, spectral theory of selfadjoint operators, applications to differential and integral equations, additional topics as time permits.*

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|---|---|---|
| 0101 | Radu Balan | Seats (Total: 18) |
| | TuTh 12:30pm - 1:45pm | MTH B0431 |

**MATH636** **Representation Theory**

*Prerequisite: MATH631.*

*Introduction to representation theory of Lie groups and Lie algebras; initiation into non-abelian harmonic analysis through a detailed study of the most basic examples, such as unitary and orthogonal groups, the Heisenberg group, Euclidean motion groups, the special linear group. Additional topics from the theory of nilpotent Lie groups, semisimple Lie groups, p-adic groups or C-algebras.*

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|---|---|---|
| 0101 | Thomas Haines | Seats (Total: 20) |
| | MWF 1:00pm - 1:50pm | MTH 0104 |

**MATH642** **Dynamical Systems I**

*Prerequisite: MATH432. And MATH630; or students who have taken courses with comparable content may contact the department.*

*Foundations of topological dynamics, homeomorphisms, flows, periodic and recurrent points, transitivity and minimality, symbolic dynamics. Elements of ergodic theory, invariant measures and sets, ergodicity, ergodic theorems, mixing, spectral theory, flows and sections. Applications of dynamical systems to number theory, the Weyl theorem, the distribution of values of polynomials, Vander Waerden's theorem on arithmetic progressions.*

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|---|---|---|
| 0101 | Vadim Kaloshin<br>TuTh 9:30am - 10:45am | Seats (Total: 18)<br>MTH B0431 |

**MATH661** **Complex Analysis II**

*Prerequisite: MATH630 and MATH660.*

*Introduction to techniques of several complex variables, with focus on geometric topics: Hartogs phenomena, Cousin problems, Dolbeault cohomology, L2 techniques, embedding of Stein manifolds, and the theory of coherent analytic sheaves.*

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|---|---|---|
| 0101 | Zbigniew Blocki<br>TuTh 11:00am - 12:15pm | Seats (Total: 18)<br>CHE 2140 |

**MATH673** **Partial Differential Equations I**

*Prerequisite: MATH411; or students who have taken courses with comparable content may contact the department. Cross-listed with: AMSC673. Credit only granted for: AMSC673 or MATH673.*

*Analysis of boundary value problems for Laplace's equation, initial value problems for the heat and wave equations. Fundamental solutions, maximum principles, energy methods. First order nonlinear PDE, conservation laws. Characteristics, shock formation, weak solutions. Distributions, Fourier transform.*

Offered fall only.

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|---|---|---|
| 0101 | Dionisios Margetis<br>TuTh 11:00am - 12:15pm | Seats (Total: 18)<br>CHE 2145 |

**MATH689** **Research Interactions in Mathematics**

(Perm req)

*The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.*

**Contact department for information to register for this course.**

**MATH695** **Teaching Seminar**

*Restriction: Must be in one of the following programs (Mathematics (Doctoral); Mathematics (Master's); Mathematical Statistics (Doctoral); Applied Mathematics and Scientific Computation (Master's); Mathematical Statistics (Master's); Applied Mathematics and Scientific Computation (Doctoral)).*

*A course intended for first year teaching assistants. Topics include: everyday mechanics of teaching; teaching methods and styles; technology; course enrichment, diversity in the classroom; sexual harassment; teacher-student interactions; presentations by students.*

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|---|---|---|
| 0101 | Terence Long | Seats (Total: 35) |
| | W 4:00pm - 5:30pm | MTH B0421 |

**MATH712** **Mathematical Logic I**

*Sentential logic, first-order languages, models and formal deductions. Basic model theory including completeness and compactness theorems, other methods of constructing models, and applications such as non-standard analysis.*

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| 0101 | Michael Laskowski | Seats (Total: 20) |
| | TuTh 9:30am - 10:45am | PHY 4222 |

**MATH730** **Fundamental Concepts of Topology**

*Prerequisite: MATH403, MATH410, and MATH411; or students who have taken courses with comparable content may contact the department.*

*Survey of basic point set topology, fundamental group, covering spaces, Van Kampen's theorem, simplicial complexes, simplicial homology, Euler characteristics and classification of surfaces.*

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|---|---|---|
| 0101 | Jonathan Rosenberg | Seats (Total: 20) |
| | MWF 9:00am - 9:50am | PHY 2122 |

**MATH742** **Geometric Analysis**

*Prerequisite: MATH673 and MATH674; or MATH740.*

*Calculus of Variations, Bochner technique, Morse theory, weak solutions and elliptic regularity, maximum principle for elliptic and parabolic equations, Green's function of the Laplacian, isoperimetric and Sobolev inequalities, continuity method, curvature and comparison results, harmonic maps, curvature prescription problems.*

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|---|---|---|
| 0101 | Richard Wentworth | Seats (Total: 20) |
| | TuTh 12:30pm - 1:45pm | MTH 0105 |

**MATH799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**MATH808A** **Selected Topics in Algebra**

*Advanced topics of current interest.*

**Contact department for information to register for this course.**

**MATH808E** **Selected Topics in Algebra; Complex abelian varieties**

*Advanced topics of current interest.*

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|---|---|---|
| 0101 | Amin Gholampour | Seats (Total: 20) |
| | MWF 12:00pm - 12:50pm | MTH 1308 |

**MATH818A** **Selected Topics in Logic**

*Advanced topics of current interest.*

**Contact department for information to register for this course.**

**MATH818C** **Selected Topics in Logic; Descriptive Set Theory and Abstract Analysis**

*Advanced topics of current interest.*

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|---|---|---|
| 0101 | Christian Rosendal | Seats (Total: 20) |
| | TuTh 12:30pm - 1:45pm | EGR 2116 |

**MATH838C** **Topics in Dynamics**

*Advanced topics of current interest.*

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|---|---|---|
| 0101 | CARLANGELO LIVERANI | Seats (Total: 20) |
| | MW 12:00pm - 1:15pm | MTH 0409 |

**MATH848A** **Selected Topics in Geometry and Topology**

*Advanced topics of current interest.*

**Contact department for information to register for this course.**

**MATH848N** **Selected Topics in Geometry and Topology; Topics in Differential Geometry**

*Advanced topics of current interest.*

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|---|---|---|
| 0101 | Yanir Rubinstein | Seats (Total: 18) |
| | TuTh 3:30pm - 4:45pm | MTH 0305 |

**MATH858A** **Selected Topics in Analysis**

*Advanced topics of current interest.*

**Contact department for information to register for this course.**

**MATH858C** **Selected Topics in Analysis; Mathematical Methods in Machine Learning**

*Advanced topics of current interest.*

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|---|---|---|
| 0101 | Wojciech Czaja | Seats (Total: 20) |
| | MWF 12:00pm - 12:50pm | PHY 4222 |

**MATH858F** **Selected Topics in Analysis; Collective Dynamics of Active Particles**

*Advanced topics of current interest.*

Ants form colonies, birds flock, mobile networks synchronize, and a consensus may emerge from the interaction of diverse human opinions. These are simple examples of collective dynamics in which small-scale interactions lead to the emergence of larger-scale patterns. We will survey recent mathematical developments in collective dynamics. Three levels of descriptions are considered: agent-based dynamics on graphs, Vlasov-type kinetic description, and large-crowd hydrodynamics. The dynamics is governed by different protocols of pairwise interactions. Different models for such protocols of attraction, alignment, and repulsion go back to the influential works of Reynolds, Krause, Vicsek, and Cucker & Smale.

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|---|---|---|
| 0101 | Eitan Tadmor<br>TuTh 11:00am - 12:15pm | Seats (Total: 20)<br>EGR 1110 |

**MATH858I** **Selected Topics in Analysis; Reaction - Diffusion Equations**

*Advanced topics of current interest.*

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|---|---|---|
| 0101 | Henri Berestycki<br>W 12:00pm - 2:00pm | Seats (Total: 30)<br>MTH 3206 |

**MATH868A** **SelectedTopics in Complex Analysis**

*Advanced topics of current interest.*

**Contact department for information to register for this course.**

**MATH898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**MATH899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# MEES Marine-Estuarine-Environmental Sciences Fall 2024

**MEES498I** **Topics in Marine-Estuarine-Environmental Sciences; Chesapeake Bay Health**

*Lecture and/or laboratory series organized to study a selected area of marine-estuarine-environmental sciences not otherwise considered in formal courses.*

Jointly offered with MEES698I. Credit only granted for MEES498I or MEES698I. Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.

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| 0101 | Carys Mitchelmore<br>TuTh 12:30pm - 1:50pm | Seats (Total: 20)<br>Location: TBA |

**MEES602** **R Programming Basics**

*Credit only granted for: MEES708X or MEES602. Formerly: MEES708X.*

*R Programming- Part 1 Module (Basics)*

Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.

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|---|---|---|
| 0101 | Vyacheslav Lyubchich | Seats (Total: 30) |
| | **Meets August 26, 2024 - October 14, 2024** | |
| | M 11:30am - 12:20pm | Location: TBA |

**MEES603** **Responsible Conduct of Research**

*Credit only granted for: MEES608B or MEES603. Formerly: MEES608B.*

*Explores the "rules of the road" for being a scientist. Using a case study approach, the seminar will cover concepts of how science is regulated, what constitutes misconduct, how research is planned, conducted, and reported authorship and data ownership, and the ethical treatment of human and animal subjects. The course will focus mainly on mentor-trainee interactions and diversity in the sciences.*

Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.

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|---|---|---|
| 0101 | Russell Hill, Cynthia Palinkas | Seats (Total: 30) |
| | M 2:00pm - 3:30pm | Location: TBA |

**MEES607** **Quantitative Methods in Environmental Sciences**

*Prerequisite: MATH120 and MATH121; or must have completed MATH220 and MATH221; or students who have taken courses with comparable content may contact the department. Credit only granted for: MEES607 or MEES698G. Formerly: MEES698G.*

*Mathematical approaches and solutions (both analytical and numerical) that cut across environmental disciplines, and will introduce analytical techniques.*

Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.

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|---|---|---|
| 0101 | Lawrence Sanford | Seats (Total: 20) |
| | MW 3:30pm - 5:00pm | Location: TBA |
| | F 11:00am - 11:50am | Location: TBA |

**MEES608O** **Seminar in Marine-Estuarine-Environmental Sciences; Topics in OMICS: From Environmental Studies to Human Health**

Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.

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|---|---|---|
| 0101 | Jum Sook Chung, Shao Du<br>F 12:00pm - 12:50pm | Seats (Total: 20)<br>Location: TBA |

**MEES613 Environmental Statistics I**

*Credit only granted for: MEES698B or MEES613. Formerly: MEES698B.*

*Extends the quantitative training for students in the environmental sciences. It will explore the basic practices of statistics to inter-disciplinary environmental data. The goal is to train students with the statistical knowledge and tools needed to conduct statistical analysis in their own research. The statistical programming language R is used in class, to complete homework sets, and to analyze online data.*

Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.

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|---|---|---|
| 0101 | Vyacheslav Lyubchich<br>MW 9:30am - 10:50am | Seats (Total: 40)<br>Location: TBA |

**MEES615 Scientific Writing and Communication**

*Restriction: Must have completed first year of graduate study; or permission of the instructor; and must have permission of the Marine Estuarine Environmental Sciences (MEES) Program. Credit only granted for: MEES608D or MEES615. Formerly: MEES608D. Additional information: Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.*

*This professional development course will provide graduate students with a solid foundation in the fundamental concepts of scientific writing and communication to both scientists and citizens. Main topics will include the peer-review process and paper structure, how to develop strong editing and review skills, and how to craft effective research and outreach talks. Additional topics will include scientific ethics and application of communication skills to proposals, networking, job applications, and interviews. Students must agree to write new text for each writing assignment.*

Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.

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|---|---|---|
| 0101 | Elizabeth North<br>F 9:00am - 10:50am | Seats (Total: 18)<br>Location: TBA |

**MEES620 Environment and Society**

*Cross-listed with: ANTH620. Credit only granted for: ANTH620 or MEES620. Additional information: Offered over the interactive video network.*

*Students will obtain foundational knowledge of core theories and methods that integrate cultural and socio-economic research into environmental science. Key topics include: coupled natural and human systems, cultural models of the environment, social networks, ecological economics, political ecology, environmental justice, and science communication.*

Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.

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|---|---|---|
| 0101 | Matthew Houser, Matthew Gray<br>Th 2:00pm - 4:45pm | Seats (Total: 20)<br>Location: TBA |

**MEES623** **Comparative Animal Physiology**

*Recommended: Undergraduate Biochemistry or Physiology. Jointly offered with: MEES423.*

*Introduces students to the many biochemical and physiological mechanisms that allow different species to inhabit a variety of ecosystems.*

Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.

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|---|---|---|
| 0101 | Kennedy Paynter<br>Tu 10:00am - 11:50am | Seats (Total: 20)<br>Location: TBA |

**MEES640** **Interconnected Earth Systems: Land, Ocean, and Estuary**

*Explores the interconnected physical and biogeochemical systems of land, estuary, and ocean with cross cutting themes of human impacts and global change. Broad concepts will be combined with targeted interactive case studies to demonstrate how these systems are linked by humans, climate, and water.*

Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.

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| 0101 | Andrea Pain, Keith Eshleman, Cynthia Palinkas, Laura Lapham, Michael Gonsior, Joseph Jurisa<br>TuTh 11:00am - 12:20pm | Seats (Total: 20)<br>Location: TBA |

**MEES650** **Advanced Wetland Ecology**

*Prerequisite: BIOM301; and ENST360 or other ecology equivalent; or permission of AGNR-Environmental Science and Technology department; or permission of CMNS-Marine & Estuarine-Environmental Science Program). Cross-listed with: ENST650. Jointly offered with: ENST450, MEES650. Credit only granted for: ENST450, ENST650, or MEES650. Additional information: Wading boots (at least hip length) are strongly recommended.*

*Plant and animal communities, biogeochemistry, and ecosystem properties of wetlands. Lectures are supplemented by field trips (normally 2 days total during the semester) and in-class labs. Hands-on activities and exercises include identification of wetland plant species, wetland mapping and delineation, and collection and analysis of field data on wetland vegetation, soil, and hydrology. Wading boots (at least hip length) are strongly recommended.*

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| 0101 | Andrew Baldwin | Seats (Total: 5) |
| | TuTh 2:00pm - 3:15pm | ANS 0538 |

**MEES660** **Ecological Systems**

*An introduction to the field of ecology is provided for matriculating graduate students and prepares them for more advanced concepts. Students will be exposed to ecology both in theory and practice through lectures, readings, and quantitative exercises, round table debates and discussions with current practitioners.*

Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.

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|---|---|---|
| 0101 | Ryan Woodland, Robert Hilderbrand | Seats (Total: 20) |
| | MW 12:30pm - 1:50pm | Location: TBA |

**MEES680** **Cell and Molecular Biology for the Environmental Scientist- From Genes to Ecosystems**

*Introduces environmental scientists to the methods and approaches that are the foundations for today's breakthroughs in molecular and cellular biology. Detailed examination of papers published in the last few years along with online background materials will be used to reinforce the connection of key concepts to experimentation.*

Offered synchronously to all MEES partner institutions via video. e Please contact the instructor(s) for access and logistical information as needed.

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|---|---|---|
| 0101 | Tsvetan Bachvaroff, Eric Schott, Yantao Li | Seats (Total: 35) |
| | MW 9:30am - 10:50am | Location: TBA |

**MEES682** **Fishery Science and Management**

*Restriction: Permission of instructor.*

*Aquatic production and fisheries yields. Introduction to fish population dynamics and assessment methods. Effects of fishing on resource potential yields. Causes of fluctuations in resource abundance. An emphasis on the relationship between science and management.*

Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.

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|---|---|---|
| 0101 | Genevieve Wilberg, Michael Wilberg | Seats (Total: 20) |
| | MW 2:00pm - 3:20pm | Location: TBA |

**MEES698C** **Special Topics in Marine-Estuarine-Environmental Sciences; Spatial Ecology in R**

*Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.*

Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.

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|---|---|---|
| 0101 | Matthew Fitzpatrick, Emily Cohen | Seats (Total: 20) |
| | TuTh 9:00am - 10:50am | Location: TBA |

**MEES698E** **Special Topics in Marine-Estuarine-Environmental Sciences; Ecosystem Restoration**

*Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.*

Jointly offered with GEOL453 and GEOL789L. Overview of critical ecosystem functions across biomes/geologic settings emphasizing tradeoffs in restoration designs. Case studies illuminate structure's influence over biophysical and biogeochemical processes supporting ecosystems; then show how properties of physical, chemical, and ecosystem processes can be altered by different restoration strategies, to optimize ecosyst em services and habitat quality. Includesa semester research project.

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| 0101 | Sujay Kaushal | Seats (Total: 25) |
| | Tu 3:30pm - 6:30pm | PLS 1115 |

**MEES698I** **Special Topics in Marine-Estuarine-Environmental Sciences; Chesapeake Bay Health**

*Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.*

Jointly offered with MEES498I. Credit only granted for MEES498I or MEES698I. Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.

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|---|---|---|
| 0101 | Carys Mitchelmore | Seats (Total: 20) |
| | TuTh 12:30pm - 1:50pm | Location: TBA |

**MEES698M** **Special Topics in Marine-Estuarine-Environmental Sciences; Modeling Chemical Equilibrium in Natural Waters**

*Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.*

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| 0101 | Johan Schijf<br>MW 8:00am - 9:20am | Seats (Total: 20)<br>Location: TBA |

**MEES698V** **Special Topics in Marine-Estuarine-Environmental Sciences; Environmental Field Methods**

*Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.*

Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.

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|---|---|---|
| 0101 | Mark Castro, William Dennison, Judith O'Neil<br>F 1:00pm - 4:00pm | Seats (Total: 10)<br>Location: TBA |

**MEES698W** **Special Topics in Marine-Estuarine-Environmental Sciences; Chemistry of Natural Water**

*Credit according to time schedule and course organization. Lecture and/or laboratory series organized to study selected areas of environmental science not otherwise considered by existing courses. May be repeated for credit since topic coverage will change.*

Cross-listed with ENCE651. Credit only granted for ENCE651 or MEES698W. Application of principles from chemical thermodynamics and kinetics to the study and interpretation of the chemical composition of natural waters is rationalized by considering metal ion solubility controls, pH, carbonate equilibria, adsorption reactions, redox reactions and the kinetics of oxygenation reactions which occur in natural water environments.

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| 0101 | Alba Torrents Capdevila<br>TuTh 8:00am - 9:15am | Seats (Total: 20)<br>EGR 0135 |

**MEES699** **Special Problems in Marine-Estuarine-Environmental Sciences**

(Perm req)

*Research on specialized topics under the direction of individual faculty members.*

**Contact department for information to register for this course.**

**MEES702** **R Programming Advanced**

*Recommended: MEES602 R Programming Basics. Credit only granted for: MEES708Y or MEES702. Formerly: MEES708Y .*

*R Programming- Part 2 Module (Advanced)*

Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.

| | | | |
|---|---|---|---|
| | 0101 | Vyacheslav Lyubchich<br>**Meets October 21, 2024 - December 9, 2024**<br>M 11:30am - 12:20pm | Seats (Total: 20)<br>Location: TBA |

**MEES718L** **Study Groups on Issues in Marine Estuarine Enviornmental Sciences; Iron Addition to the Ocean: Climate Fix or Climate Disaster**

*Active discussions on current environmental topics and issues. Efforts may result in manuscripts, technical report or innovative communication products.*

Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.

| | | |
|---|---|---|
| 0101 | Allen Place, Victoria Coles, Johan Schijf, Gregory Silsbe<br>Th 10:00am - 11:50am | Seats (Total: 20)<br>Location: TBA |

**MEES718M** **Study Groups on Issues in Marine Estuarine Enviornmental Sciences; Coastal Environment and Community Health**

*Active discussions on current environmental topics and issues. Efforts may result in manuscripts, technical report or innovative communication products.*

Offered synchronously to all MEES partner institutions via video. Please contact the instructor(s) for access and logistical information as needed.

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|---|---|---|
| 0101 | Vanessa Vargas-Nguyen, Rense Kelsey<br>W 2:00pm - 3:50pm | Seats (Total: 20)<br>Location: TBA |

**MEES799** **Masters Thesis Research**
**Contact department for information to register for this course.**

**MEES898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**MEES899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# MIEH Maryland Institute for Applied Environmental Health Fall 2024

**MIEH300** **A Public Health Perspective: Introduction to Environmental Health**

*Prerequisite: Minimum grade of C- in CHEM131 and CHEM132; and must have completed or be concurrently enrolled in SPHL100 or PHSC300. Restriction: Must have earned a minimum of 60 credits; and must be in Public Health Science program; or permission of SPHL-School of Public Health. Credit only granted for: SPHL498N or MIEH300. Formerly: SPHL498N.*

*Environmental health is that branch of public health that deals with the human health effects of exposure to chemical, physical, and biological agents in the community, workplace, and home. Activities within Environmental Health Sciences are associated with recognizing, assessing, understanding, and mitigating the impacts of chemical, physical, and biological agents as well as understanding how human behavior and action impacts the environment. This course focuses on the central concepts, principles, issues, and applications of the essential scientific components and strategies of control of major environmental health problems.*

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|---|---|---|---|
| 0101 | Brienna Anderson | Seats (Total: 20) | |
| | MW 9:00am - 9:50am<br>W 10:00am - 11:50am | SPH 1312<br>SPH 0116A | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0102 | Brienna Anderson | Seats (Total: 20) | |
| | MW 9:00am - 9:50am<br>W 12:00pm - 1:50pm | SPH 1312<br>SPH 0116A | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0103 | Brienna Anderson | Seats (Total: 20) | |
| | MW 9:00am - 9:50am<br>W 2:00pm - 3:50pm | SPH 1312<br>SPH 0116A | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0104 | Brienna Anderson | Seats (Total: 20) | |
| | MW 9:00am - 9:50am<br>W 4:00pm - 5:50pm | SPH 1312<br>SPH 0116A | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0105 | Brienna Anderson | Seats (Total: 20) | |
| | MW 9:00am - 9:50am<br>F 8:00am - 9:50am | SPH 1312<br>SPH 0116A | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0106 | Brienna Anderson | Seats (Total: 20) | |
| | MW 9:00am - 9:50am<br>F 10:00am - 11:50am | SPH 1312<br>SPH 0116A | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |

| | | | |
|---|---|---|---|
| 0107 | Brienna Anderson<br>MW 9:00am - 9:50am<br>F 12:00pm - 1:50pm | Seats (Total: 20)<br>SPH 1312<br>SPH 0116A | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0108 | Brienna Anderson<br>MW 9:00am - 9:50am<br>F 2:00pm - 3:50pm | Seats (Total: 20)<br>SPH 1312<br>SPH 0116A | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| ESG1 | Meleah Boyle<br>Th 5:00pm - 7:30pm<br>Class time/details on ELMs | Seats (Total: 35)<br>BLD3 2131<br>ONLINE | Discussion |
| | *Restricted to Shady Grove students in the Public Health Science major.* | | |

**MIEH309** **Environmental Health Research**

(Perm req)

*This research-based course will provide undergraduates with the opportunity to work closely with one of the faculty researchers in the Maryland Institute for Applied Environmental Health (MIAEH) within the School of Public Health. Our research covers multiple fields within the environmental health sciences (e.g. environmental epidemiology, exposure science, risk assessment, environmental microbiology, environmental microbial genomics, food toxicology, airborne infection transmission, environmental justice, and children's environmental health) that involve either laboratory-based research or non-laboratory based studies. Students will not only gain invaluable research and interpersonal skills but also contribute to MIAEH's ongoing environmental health research programs.*

| | | |
|---|---|---|
| 0201 | Paul Turner<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0202 | Kristen Coleman<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0203 | Amy Sapkota<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0204 | Donald Milton, Kristen Coleman<br>Contact instructor or department for details. | Seats (Total: 25) |
| 0205 | Robin Puett<br>Contact instructor or department for details. | Seats (Total: 5) |

| | | |
|---|---|---|
| 0206 | Sacoby Wilson<br>Contact instructor or department for details. | Seats (Total: 15) |
| 0207 | Rachel Goldstein<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0208 | Devon Payne-Sturges<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0209 | Rianna Murray<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0210 | Muhiuddin Haider<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0211 | Leena Malayil<br>Contact instructor or department for details. | Seats (Total: 5) |

**MIEH333** **Every Drop Counts: Water, Food and Global Public Health**

*Prerequisite: ENSP101 or MIEH300; or permission of department. Cross-listed with: ENSP360. Credit only granted for: MIEH333 or ENSP360.*

*In-depth interdisciplinary study of the public health issues related to water use for global food production. Topics will include accessibility and availability of safe water for agriculture worldwide, potential microbiological and chemical hazards in agricultural water, alternative water sources such as reclaimed wastewater and return flows, food safety approaches to managing agricultural water, and agricultural influences on surface and groundwater quality. Political, social, and economic factors relating to agricultural water will be addressed, with special focus on regions that are leaders in innovative water management and regions where access to clean water for agriculture is a major challenge.*

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|---|---|---|
| 0101 | Leena Malayil<br>M 9:00am - 10:30am | Seats (Total: 25)<br>ONLINE |

**MIEH480** **Introduction to Occupational Health**

*Prerequisite: Minimum grade of C- in MIEH300 and EPIB301. Recommended: BSCI201.*

*Through in-person site visits, hands-on activities and case studies, students will learn about healthy workplaces and their critical role in public health. The course will center on the field of occupational health and safety. Site visits will enable students to hear firsthand from workers, local health & safety professionals, and former students now in the field. Case studies will allow students to explore today's critical work hazards across various work environments and industries.Students will develop and apply essential skills, such as conducting a safety walk-through in a worksite, leading a worker safety training, and writing a safety plan for an employer. Upon course completion, students will be prepared to address traditional workplace problems, as well as emerging hazards like extreme heat, poor indoor air quality, and the mental health challenges of today's workplace.*

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|---|---|---|
| 0101 | Kathleen McPhaul<br>M 4:00pm - 6:45pm | Seats (Total: 15)<br>SPH 0121 |

**MIEH600** **Foundations of Environmental Health**

*Credit only granted for: HLTH761 or MIEH600. Formerly: HLTH761.*

*Overview of the chemical, physical and biological hazards present in our living and working environment and their effects on human health. Topics include: exposure assessment, industrial hygiene and safety, pesticides, community and indoor pollution, food-borne diseases, solid and hazardous wastes, water resources, risk assessment, ecological issues and environmental laws.*

| | | |
|---|---|---|
| 0201 | Rachel Goldstein<br>W 10:00am - 12:45pm | Seats (Total: 20)<br>PLS 1162 |

**MIEH605** **Fundamentals of Global Health**

*Credit only granted for: SPHL600 or SPHL698A. Formerly: SPHL698A.*

*Exploration of theoretical frameworks and practicial perspectives in global health with particular attention to the analysis of the biological, epidemiological, social, cultural and behavioral interactions that affect global health study and project implementation. The emphasis is on innovative solutions to health issues in underserved populations.*

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|---|---|---|
| GH01 | Muhiuddin Haider<br>W 5:00pm - 7:00pm<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE<br>ONLINE |

**MIEH609** **Methods in Environmental Health**

*This research-based rotation in environmental health sciences will provide graduate students with the opportunity to work closely with faculty researchers in the Maryland Institute for Applied Environmental Health (MIAEH) within the School of Public Health. Our research covers multiple fields within the environmental health sciences (e.g. environmental epidemiology, exposure science, risk assessment, environmental microbiology, environmental microbiology, environmental microbial genomics, food toxicology, airborne infection transmission, environmental justice, and children's environmental health) that involve either laboratory-based research or non-laboratory based studies. Students will not only gain invaluable research experience and interpersonal skills but also contribute to MIAEH's ongoing environmental health research programs.*

| | | |
|---|---|---|
| 0201 | Paul Turner<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0202 | Amir Sapkota<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0203 | Amy Sapkota<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0204 | Donald Milton<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0205 | Robin Puett<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0206 | Sacoby Wilson<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0207 | Rachel Goldstein<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0208 | Devon Payne-Sturges<br>Contact instructor or department for details. | Seats (Total: 5) |

**MIEH692** **UMD Global STEWARDS: Project-Based Data Practicum at the Nexus of Food, Energy, and Water Systems**

*Prerequisite: MIEH 690. Restriction: Permission of instructor; and must be in UMD Global STEWARDS Fellows. Credit only granted for: MIEH 691 or MIEH 692. Formerly: MIEH 691.*

*The range of food-energy-water (FEW) systems challenges from local to global scales. During the semester, students will gain real-world experience by participating in the conceptualization and/or conduct of an interdisciplinary FEW systems project. Projects may employ engineering, life sciences, epidemiological or policy approaches; earth system sciences frameworks; computational methods; and/or other innovative approaches. Through this work, students will gain hands-on experience in study design, research methods, and data analysis across varying FEW disciplines. Each student will bring a diverse set of expertise to the projects, creating a microcosm for interdisciplinary team science. During the course, students will have the opportunity to refine oral and written communication skills, including team writing. The deliverable for the course may include a grant proposal, a manuscript, a FactSheet, an Op-Ed, or another actionable type of science/policy writing.*

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|---|---|---|
| 0101 | Rianna Murray | Seats (Total: 16) |
| | W 1:00pm - 2:45pm | SPH 0301 |

**MIEH740** **Environmental Health Risk Assessment**

*Prerequisite: MIEH600; or permission of instructor.*

*Review of the major methods of human and ecological risk assessment conducted by the U.S. Environment Protection Agency. Emphasis on sources of uncertainty.*

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|---|---|---|
| 0201 | Abdel-Razak Kadry | Seats (Total: 15) |
| | Tu 4:00pm - 6:45pm | PLS 1172 |

**MIEH778** **Practical Experience in Public Health**

(Perm req)

*Practice experience and seminar providing an opportunity to apply previously acquired knowledge and skills in a health or allied health organization. Setting of the practice experience will depend upon the student's background and career goals.*

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|---|---|---|
| 0201 | Rianna Murray | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**MIEH780** **Occupational Health**

*Prerequisite: MIEH720 and MIEH771; and must have completed SPHL602. Or permission of instructor.*

*A synthesis of epidemiology, toxicology, exposure science, risk assessment, and policy. Emphasis will be on methods for anticipating, recognizing, evaluating and controlling workplace hazards; the hierarchy of controls; and current hot topics in occupational health.*

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|---|---|---|
| 0101 | Kathleen McPhaul | Seats (Total: 10) |
| | M 4:00pm - 6:45pm | SPH 0121 |

**MIEH783** **Proposal Development and Marketing for Public Health Scientists**

*Every scientist, whether in academia, government, or industry, must write compelling proposals if they are to succeed in having resources to pursue their passions and interests. To write a compelling proposal, we must develop clear and concise hypotheses and definitive ways to test them. But to have an impact, to get funded, to graduate, we must also excel at marketing our ideas and our achievements to other scientists and the public. This course is designed for doctoral students and postdoctoral fellows who want to develop and hone their proposal development and marketing skills.*

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|---|---|---|
| 0101 | Donald Milton<br>W 4:00pm - 5:15pm<br>Class time/details on ELMs | Seats (Total: 15)<br>SPH 0301<br>ONLINE |

**MIEH786** **Capstone Project in Public Health**

(Perm req)

*Prerequisite: Permission of SPHL-Maryland Institute for Applied Environmental Health.*

*Capstone experience provding opportunity to apply knowledge and skills to a specific public health problem or issue. Completion of project relevant to public health under the direction of an advisor.*

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|---|---|---|
| 0201 | Paul Turner<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0202 | Amir Sapkota<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0203 | Amy Sapkota<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0204 | Donald Milton<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0205 | Robin Puett<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0206 | Sacoby Wilson<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0207 | Rachel Goldstein<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0208 | Devon Payne-Sturges<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0209 | Jennifer German<br>Contact instructor or department for details. | Seats (Total: 5) |

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|---|---|---|
| 0210 | Kathleen McPhaul | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**MIEH788** **Critical Readings in Environmental Health**

*In-depth examination and critical discussion of the current literature relevant to environmental health.*

**Contact department for information to register for this course.**

**MIEH789** **Independent Study**

(Perm req)

*Individual reading and/or research under a specific faculty member in the department.*

**Contact department for information to register for this course.**

**MIEH799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**MIEH898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**MIEH899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# MITH Maryland Institute for Technology in the Humanities Fall 2024

**MITH388** **Digital Humanities Research Assistantship**

(Perm req)

*An applied introduction to the theory and practice of digital research. The internship includes regular meetings with MITH staff, including designers, developers, information professionals, project managers, and faculty, to gain knowledge of existing digital scholarship and resources within the arts and humanities. Students may contribute to existing MITH projects or propose a small, independent research project on which they will receive support from MITH staff.*

**Contact department for information to register for this course.**

**MITH388T** **Digital Humanities Research Assistantship; Maryland Institute for Technology in the Humanities Internships**

(Perm req)

*An applied introduction to the theory and practice of digital research. The internship includes regular meetings with MITH staff, including designers, developers, information professionals, project managers, and faculty, to gain knowledge of existing digital scholarship and resources within the arts and humanities. Students may contribute to existing MITH projects or propose a small, independent research project on which they will receive support from MITH staff.*

| | | |
|---|---|---|
| 0101 | Jeffrey Moro | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**MITH628** **Special Topics in Digital Humanities**

(Perm req)

*A graduate level introduction to special topics, and technical approaches, for theoretically grounded humanities and social sciences digital research. Class meetings will introduce students to a variety of technical approaches potentially applicable to the specific topical foci; the theoretical basis for selecting, evaluating, and modifying technical approaches; and best practices in project management.*

**Contact department for information to register for this course.**

**MITH628B** **Special Topics in Digital Humanities; Research Assistantship**

*A graduate level introduction to special topics, and technical approaches, for theoretically grounded humanities and social sciences digital research. Class meetings will introduce students to a variety of technical approaches potentially applicable to the specific topical foci; the theoretical basis for selecting, evaluating, and modifying technical approaches; and best practices in project management.*

| | | |
|---|---|---|
| 0101 | Raffaele Viglianti | Seats (Total: 15) |
| | Contact instructor or department for details. Class time/details on ELMs | ONLINE |

**MITH638** **Advanced Special Topics in Digital Humanities**

(Perm req)

*A graduate level introduction to advanced special topics, and technical approaches, for theoretically grounded humanities and social sciences digital research. Class meetings will introduce students to a variety of technical approaches potentially applicable to the specific topical foci; the theoretical basis for selecting, evaluating, and modifying technical approaches; and best practices in project management.*

**Contact department for information to register for this course.**

**MITH729** **Colloquium in Digital Studies**

*Colloquium in support of the ARHU-MITH Graduate Certificate in Digital Studies. We will meet periodically (approximately 4-5 times a semester) to read and discuss current work in the field, interact with visiting speakers, share work in progress, learn new tools and methods, and hear research presentations from one another.*

Cross-listed with COMM698M. Credit only granted for MITH729 or COMM698M.

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|---|---|---|
| 0101 | Damien Pfister | Seats (Total: 25) |
| | F 3:00pm - 5:00pm | SKN 3115 |

# MLAW MPower Undergraduate Law Programs Fall 2024

**MLAW100** **Justice and the Law**

*Restriction: Course enrollment is restricted to students in the College Park Scholars Justice and Legal Thought Program (CPJT).*

*An exploration into the relationship between justice and law, including psychological, philosophical, political and legal approaches to justice, as well as an analytical framework for understanding human rights.*

| | | |
|---|---|---|
| 0101 | Victoria Worley<br>TuTh 11:00am - 12:15pm | Seats (Total: 83)<br>TWS 1100 |

**MLAW304 Introduction to Law and Social Inquiry**

*Restriction: Must be in the Law and Society (MLAW) minor.*

*An exploration of the relationship between law and society from an interdisciplinary perspective. Major themes cover the impact of law on society, society on law and social change.*

| | | |
|---|---|---|
| 0101 | Christine White<br>TuTh 11:00am - 12:15pm | Seats (Total: 35)<br>TWS 0205 |
| 0201 | Christine White<br>MW 11:00am - 12:15pm | Seats (Total: 35)<br>SQH 1121 |

**MLAW305 Law and Legal Institutions in Social Context**

*Prerequisite: MLAW304. Restriction: Must be a student in the Law and Society Minor.*

*An exploration of case law, statutes, and regulations separately and together in their social context.*

| | | |
|---|---|---|
| 0101 | Brian Gilmore<br>TuTh 9:30am - 10:45am | Seats (Total: 40)<br>TYD 1118 |

**MLAW315 Citizenship and Naturalization in America**

*Restriction: Must be in the Law and Society minor (MLAW); or must be in College Park Scholars Justice and Legal Thought (CPJT).*

*Notions of who is an American - and who is not - are deeply rooted in the American ethos. Although the United States has long been praised for its inclusiveness vis-a-vis citizenship - including a policy of jus soli, or birthright citizenship - a closer look reveals a difficult history involving the categorical exclusion of many groups from American citizenship. We will examine this history, focusing particularly on Black and Native Americans and immigrants, and drawing upon legal cases, historical texts, and personal narratives detailing the lived experiences of those seeking American citizenship. We will trace this history to the present and explore the current process and requirements for becoming an American citizen. Students will have an opportunity to engage guests and discussions from the Maryland Carey School of Law and other experts.*

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|---|---|---|
| 0101 | Himedes Chicas<br>W 5:30pm - 7:10pm | Seats (Total: 18)<br>SQH 2113 |

**MLAW358T** **Selected Topics in Law and Society; Tackling Trafficking: The Legal System's Responses to Human Trafficking**

*An interdisciplinary exploration of topics in law and society. Major scholarly interpretations of specific substantive fields of law.*

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|---|---|---|
| 0101 | Christine White<br>TuTh 12:30pm - 1:45pm | Seats (Total: 20)<br>LEF 1221 |

**MLAW358X** **Selected Topics in Law and Society; Introduction to Constitutional Law**

*An interdisciplinary exploration of topics in law and society. Major scholarly interpretations of specific substantive fields of law.*

Prerequisites: GVPT170 and GVPT331. Jointly offered with GVPT431. Credit only granted for GVPT431 or MLAW358X.

| | | |
|---|---|---|
| 0101 | Martin Kobren<br>MW 2:00pm - 3:15pm | Seats (Total: 5)<br>TYD 0117 |

**MLAW359** **Undergraduate Teaching Assistant Experience**

(Perm req)

*Designed to engage experienced Law and Society students as mentors and class leaders. Students will be involved in lesson planning, course design, field trips, and class discussion as they develop their leadership and public speaking skills.*

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|---|---|---|
| 0101 | Brandee Pettus<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE |

**MLAW378E** **Special topics in Law and Society; Experiences, Advocacy and Research**

(Perm req)

*An interdisciplinary examination in law and society, relying on scholarly interpretations of specific substantive topics of law*

Restriction: Permission of department.

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|---|---|---|
| 0101 | Brandee Pettus<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE |

**MLAW378K** **Special topics in Law and Society; The US Supreme Court and American Society**

*An interdisciplinary examination in law and society, relying on scholarly interpretations of specific substantive topics of law*

This course investigates the United States Supreme Court and its role in politics, government, and society. Other than its constitutional justification, why do we need and have a U.S. Supreme Court? What are some of the most important opinions issued by the Supreme Court that changed society, for the good, and bad? Who are the Court's most important justices? And most of all, how does the Court work? This course will trace the development of the constitutional doctrine of the Court, the growth of the Court's institutional power, and the Court s interaction with Congress, the president, and society. Discussed are major constitutional law decisions, their political contexts, and the social and behavioral factors that affect judges, justices, and federal court jurisprudence. There will be a strong emphasis on how the Court's decisions have impacted law and society and how the Court helps to maintain a certain kind of society.

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|---|---|---|
| 0101 | Brian Gilmore | Seats (Total: 25) |
| | TuTh 3:30pm - 4:45pm | TWS 0201 |

**MLAW378R** **Special topics in Law and Society; Restorative Justice to the Power of Three**

*An interdisciplinary examination in law and society, relying on scholarly interpretations of specific substantive topics of law*

Restorative justice is dawning in our society as an alternative to the traditional, punitive, and hierarchical methods of discipline and conflict resolution. This interactive, experience-based course, will equip you to resolve conflict and bring healing to situations throughout your life, and facilitate restorative interventions and applications.

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|---|---|---|
| 0101 | Nancy Schertzing | Seats (Total: 18) |
| | M 3:00pm - 5:30pm | AJC 2134 |

**MLAW388** **Law and Society Internship**

*Participation in the Law and Society Internship (LASI) offers students the opportunity to enhance their education through practical skill building in the realm of law-related professionals.*

Restricted to students within the Law and Society minor.

| | | |
|---|---|---|
| 0101 | Brandee Pettus | Seats (Total: 40) |
| | Class time/details on ELMs | ONLINE |

**MLAW404** **Law & Society Capstone**

(Perm req)

*Restriction: Student must be enrolled in the Law and Society minor.*

*An exploration of the implications of technology on law and society from a variety of perspectives.Significant issues will be taken from contemporary scholarship and court cases.*

**Contact department for information to register for this course.**

# MLSC MD Language Science Ctr Fall 2024

**MLSC308** **PULSAR Language Science Research Seminar**

(Perm req)

*Research seminar for students in the PULSAR language science program. Weekly presentations and discussions on diverse topics in language science research, as well as on developing research skills.*

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|---|---|---|
| 0101 | Andrea Zukowski | Seats (Total: 25) |
| | Contact instructor or department for details. | |

# MOCB Molecular and Cell Biology Fall 2024

**MOCB608** **Molecular and Cell Biology Seminar**

(Perm req)

*Seminar in molecular and cell biology.*

| | | |
|---|---|---|
| 0101 | Jonathan Dinman | Seats (Total: 12) |
| | Contact instructor or department for details. | |

**MOCB699** **Laboratory Rotation**

(Perm req)

*Laboratory experience in molecular-cell biology.*

**Contact department for information to register for this course.**

**MOCB898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**MOCB899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# MSML Machine Learning Fall 2024

**MSML601** **Probability and Statistics**

*Prerequisite: Undergraduate courses in calculus and basic linear algebra. Cross-listed with: DATA601, BIOI601. Credit only granted for: BIOI601, DATA601 or MSML601.*

*Provides a solid understanding of the fundamental concepts of probability theory and statistics. The course covers the basic probabilistic concepts such as probability space, random variables and vectors, expectation, covariance, correlation, probability distribution functions, etc. Important classes of discrete and continuous random variables, their inter-relation, and relevance to applications are discussed. Conditional probabilities, the Bayes formula, and properties of jointly distributed random variables are covered. Limit theorems, which investigate the behavior of a sum of a large number of random variables, are discussed. The main concepts random processes are then introduced. The latter part of the course concerns the basic problems of mathematical statistics, in particular, point and interval estimation and hypothesis testing.*

| | | |
|---|---|---|
| PCS1 | Leonid Koralov<br>W 6:00pm - 8:45pm | Seats (Total: 60)<br>CSI 3117 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS2 | Sandra Cerrai<br>W 6:00pm - 8:45pm | Seats (Total: 60)<br>PHY 1410 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS3 | Jonathan Fernandes<br>W 6:00pm - 8:45pm | Seats (Total: 60)<br>ESJ 2204 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS4 | Christopher Cameron<br>W 6:00pm - 8:45pm | Seats (Total: 60)<br>ESJ 2208 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS5 | Stefan Doboszczak<br>W 6:00pm - 8:45pm | Seats (Total: 60)<br>IRB 0318 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS6 | Roohollah Ebrahimian<br>F 4:00pm - 6:45pm | Seats (Total: 60)<br>PHY 1410 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS7 | Anna Szczekutowicz<br>F 4:00pm - 6:45pm | Seats (Total: 60)<br>PHY 1201 |

**MSML602** **Principles of Data Science**

*Restriction: Must be in one of the following programs: (Data Science Post-Baccalaureate Certificate, Master of Professional Studies in Data Science and Analytics, or Master of Professional Studies in Machine Learning). Cross-listed with: DATA602, BIOI602. Credit only granted for: BIOI602, DATA602, MSML602 or CMSC641. Formerly: CMSC641.*

*An introduction to the data science pipeline, i.e., the end-to-end process of going from unstructured, messy data to knowledge and actionable insights. Provides a broad overview of what data science means and systems and tools commonly used for data science, and illustrates the principles of data science through several case studies.*

| | | |
|---|---|---|
| PCS1 | Mohammad Nayeem Teli<br>M 6:00pm - 8:45pm<br>*Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | Seats (Total: 70)<br>ESJ 2204 |
| PCS2 | Fardina Alam<br>Tu 5:00pm - 7:45pm<br>*Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | Seats (Total: 70)<br>IRB 0318 |
| PCS3 | Maksym Morawski<br>Tu 6:00pm - 8:45pm<br>*Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | Seats (Total: 60)<br>IRB 1116 |
| PCS4 | Charles Forgy<br>Th 6:00pm - 8:45pm<br>*Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | Seats (Total: 60)<br>PHY 1201 |
| PCS5 | Heng Huang<br>Tu 6:00pm - 8:45pm<br>*Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | Seats (Total: 60)<br>PHY 1201 |
| PCS6 | Charles Forgy<br>Tu 6:00pm - 8:45pm | Seats (Total: 60)<br>CSI 2117 |
| PCS7 | Tammy Perrin<br>M 6:00pm - 8:45pm | Seats (Total: 60)<br>TWS 0310 |

**MSML603** **Principles of Machine Learning**

*Restriction: Must be in one of the following programs: (Data Science Post-Baccalaureate Certificate, Master of Professional Studies in Data Science and Analytics, or Master of Professional Studies in Machine Learning). Cross-listed with: DATA603, BIOI603, MSQC603. Credit only granted for: BIOI603, DATA603, MSML603, MSQC603 or CMSC643. Formerly: CMSC643.*

*A broad introduction to machine learning and statistical pattern recognition. Topics include: Supervised learning: Bayes decision theory, discriminant functions, maximum likelihood estimation, nearest neighbor rule, linear discriminant analysis, support vector machines, neural networks, deep learning networks. Unsupervised learning: clustering, dimensionality reduction, PCA, auto-encoders. The course will also discuss recent applications of machine learning, such as computer vision, data mining, autonomous navigation, and speech recognition.*

The lecture may be conducted online some weeks and in person other weeks. Please see ELMS for Class meeting details.

| | | |
|---|---|---|
| PCS1 | Babak Azimi-Sadjadi<br>Th 6:00pm - 8:45pm | Seats (Total: 70)<br>CSI 3117 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS2 | Alejandra Mercado<br>F 9:00am - 11:45am | Seats (Total: 70)<br>PLS 1130 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS3 | Kemal Davaslioglu<br>M 6:00pm - 8:45pm | Seats (Total: 65)<br>MCB 1207 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS4 | Babak Azimi-Sadjadi<br>M 6:00pm - 8:45pm | Seats (Total: 65)<br>CSI 3117 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS5 | Richard La<br>F 10:00am - 12:45pm | Seats (Total: 65)<br>BPS 1250 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS6 | Richard La<br>M 6:00pm - 8:45pm | Seats (Total: 65)<br>IRB 1116 |

**MSML641** **Natural Language Processing**

*Prerequisite: DATA603 or MSML603. Cross-listed with: DATA641. Credit only granted for: DATA641 or MSML641.*

*Introduces fundamental concepts and techniques involved in getting computers to deal more intelligently with human language. Focused primarily on text (as opposed to speech), the class will offer a grounding in core NLP methods for text processing (such as lexical analysis, sequential tagging, syntactic parsing, semantic representations, text classification, unsupervised discovery of latent structure), key ideas in the application of deep learning to language tasks, and consideration of the role of language technology in modern society.*

| | | |
|---|---|---|
| PCS1 | Shabnam Tafreshi | Seats (Total: 60) |
| | M 6:00pm - 8:45pm | EGR 1108 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |

**MSML642 Robotics**

*Prerequisite: DATA603, MSML603, or MSQC603.*

*Machine learning can expand the capabilities of robotic systems including UAV, and applies to a variety of robotic system functions including planning, control, and perception. Robot Learning covers the application of learning techniques including Reinforcement Learning, Learning from Demonstration, Evolutionary, and Robot Shaping that may be used with a variety of machine learning paradigms. A variety of paradigms are available to generate models (e.g., CMAC, lazy learning, LWR, RBF, deep networks). These learning techniques and paradigms are then combined with traditional robotic control approaches (e.g., motor schema, behavior-based, direct and inverse methods) to create controllers to control the robots while operating in real-world environments. This course will explore applying machine learning techniques, paradigms, and control design to robotic systems including UAV. Students will construct a simulation environment for robot system by using machine learning methods.*

| | | |
|---|---|---|
| PCS1 | Jerry Wu | Seats (Total: 50) |
| | Th 6:00pm - 8:45pm | CSI 1122 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |

**MSML650 Cloud Computing**

*Cross-listed with: DATA650. Credit only granted for: MSML650 or DATA650.*

*Presents the state of the art in cloud computing technologies and applications. Topics will include: telecommunications needs, architectural models for cloud computing, cloud computing platforms and services. Data center networking, server, network and storage virtualization technologies, and containerization. Cloud operating and orchestration systems. Security, privacy, and trust management; resource allocation and quality of service; interoperability and internetworking.*

| | | |
|---|---|---|
| PCS1 | Samet Ayhan | Seats (Total: 70) |
| | Tu 6:00pm - 8:45pm | CSI 3117 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |

| | | |
|---|---|---|
| PCS2 | Samet Ayhan | Seats (Total: 50) |
| | Th 6:00pm - 8:45pm | IRB 2107 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |

# MSQC Quantum Computing Fall 2024

**MSQC601** **Mathematics and Methods of Quantum Computing**

*This course will provide the student with the necessary mathematical tools and background knowledge to understand, model, and conceptualize quantum computing and its building blocks and systems. We shall review concepts of computation and how they translate to the microscopic world.*

| | | |
|---|---|---|
| PCS1 | Alfredo Nava-Tudela | Seats (Total: 15) |
| | M 6:00pm - 8:45pm | TLF 1101 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |

**MSQC602** **Physics of Quantum Devices**

*An introduction to quantum physics with emphasis on topics at the frontiers of research, and developing understanding through exercises.This course aims to build a bridge between natural principles such as light and atoms and a variety of modern applications. This course will provide the student with the necessary physical intuition and background information on quantum physics so that to be able to understand and appreciate a variety of applications in quantum computing such as quantum currency, encryption, random number generation*

| | | |
|---|---|---|
| PCS1 | Anil Zenginoglu | Seats (Total: 15) |
| | Tu 6:00pm - 8:45pm | TLF 1101 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |

**MSQC603** **Principles of Machine Learning**

*Restriction: Must be in one of the following programs: (Data Science Post-Baccalaureate Certificate, Master of Professional Studies in Data Science and Analytics, or Master of Professional Studies in Machine Learning). Cross-listed with: DATA603, BIOI603, MSML603. Credit only granted for: BIOI603, DATA603, MSML603, MSQC603 or CMSC643. Formerly: CMSC643.*

*A broad introduction to machine learning and statistical pattern recognition. Topics include: Supervised learning: Bayes decision theory, discriminant functions, maximum likelihood estimation, nearest neighbor rule, linear discriminant analysis, support vector machines, neural networks, deep learning networks. Unsupervised learning: clustering, dimensionality reduction, PCA, auto-encoders. The course will also discuss recent applications of machine learning, such as computer vision, data mining, autonomous navigation, and speech recognition.*

The lecture may be conducted online some weeks and in person other weeks. Please see ELMS for Class meeting details.

| | | |
|---|---|---|
| PCS1 | Babak Azimi-Sadjadi<br>Th 6:00pm - 8:45pm | Seats (Total: 70)<br>CSI 3117 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS2 | Alejandra Mercado<br>F 9:00am - 11:45am | Seats (Total: 70)<br>PLS 1130 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS3 | Kemal Davaslioglu<br>M 6:00pm - 8:45pm | Seats (Total: 65)<br>MCB 1207 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS4 | Babak Azimi-Sadjadi<br>M 6:00pm - 8:45pm | Seats (Total: 65)<br>CSI 3117 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |
| PCS5 | Richard La<br>F 10:00am - 12:45pm | Seats (Total: 65)<br>BPS 1250 |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |

**MSQC607** **Advanced Topics in Quantum Computing**

*This course will showcase a variety of topics from which students can select one, or come up with one of their own, and proceed to study it in depth. The students will make presentations of their findings to class by citing literature and code implementations where appropriate, and culminate with the writing of a scholarly paper on the topic chosen.*

| | | |
|---|---|---|
| PWS1 | Paul Lott<br>M 6:00pm - 8:45pm | Seats (Total: 10)<br>ONLINE |
| | *Must be in Graduate Programs in Science Academy. Golden ID students are not eligible for this section.* | |

# MUED Music Education Fall 2024

**MUED155** **Fundamentals for the Classroom Teacher**

*Restriction: Must be in one of the following programs (Early Childhood Education; Elementary Education) ; or must be a Pre-Elementary Education major; or must be a Pre-Early Childhood Education major.*

*The fundamentals of music theory and practice, related to the needs of the classroom and the kindergarten teacher.*

| | | | |
|---|---|---|---|
| 0101 | Darren Shillingford | Seats (Total: 25) | |
| | M 4:15pm - 6:45pm | PAC 3160 | |

**MUED186** **Pre-professional Experiences I**

(Perm req)

*Restriction: Must be in Music Education program. Additional information: Fulfills the College of Arts and Humanities requirement for ARHU158.*

*An orientation into the role of the music teacher in the school and community. On-site school visits at elementary, middle and high school levels form the basis for discussion and exploration of all facets of the music education profession.*

| | | | |
|---|---|---|---|
| 0101 | Mike Hewitt | Seats (Total: 30) | |
| | M 10:00am - 10:50am | PAC 2164 | |
| | F 9:00am - 10:50am | PAC 2130A | Lab |

**MUED213** **String Technique and Pedagogy I**

*Restriction: Must be in Music Education program.*

*A study of violin, viola, cello and bass technique and pedagogy; beginning level. Emphasizes group process playing and teaching.*

| | | | |
|---|---|---|---|
| 0101 | Allison Durbin | Seats (Total: 25) | |
| | MWF 9:00am - 9:50am | PAC 1230 | |

**MUED320** **Teaching Secondary Instrumental Music I**

(Perm req)

*Prerequisite: MUED187. Restriction: Must be in Music Education program.*

*Prepare instrumental-emphasis music education majors to synthesize the knowledge and skills that will enable them to extend secondary-level musical skill through planned instruction and development of teaching materials.*

| | | | |
|---|---|---|---|
| 0101 | Stephanie Prichard | Seats (Total: 12) | |
| | TuTh 9:30am - 10:45am | PAC 1230 | |

**MUED333** **Classroom Vocal Pedagogy**

(Perm req)

*Prerequisite: MUED187 and MUED186.  Restriction: Must be in Music Education program.*

*An introduction to the fundamentals of group vocal pedagogy for the choral and general classroom teacher, including the teaching of posture, breathing, resonance, registration, articulation and foreign language diction as appropriate to needs of the child or adolescent singer in K-12 classroom settings.*

| | | | |
|---|---|---|---|
| 0101 | Kenneth Elpus<br>W 4:00pm - 6:30pm | Seats (Total: 10)<br>PAC 2130A | |

**MUED420** **Teaching Secondary Instrumental Music II**

(Perm req)

*Prerequisite: MUED320 and MUED311.  Restriction: Must be in Music Education program.*

*Prepare instrumental-emphasis music education majors to synthesize the knowledge and skills that will enable them to develop and/or maintain an exemplary, curricular-oriented, research-based, comprehensive secondary instrumental program.*

| | | | |
|---|---|---|---|
| 0101 | Mike Hewitt<br>Tu 9:00am - 11:00am<br>Th 8:00am - 12:00pm | Seats (Total: 20)<br>PAC 2540<br>Location: TBA | <br><br>Lab |

**MUED422** **Teaching General Music II**

*Prerequisite: MUED322 and MUED333. Restriction: Must be in Music Education program. Credit only granted for: MUED422 or MUED471. Formerly: MUED471.*

*Designed as an advanced music methods course and field experience for students who are preparing for a career in general music. The field experience is a practicum that is co-supervised by the university instructor and a general music educator.*

| | | | |
|---|---|---|---|
| 0101 | Robin Giebelhausen<br>Tu 10:00am - 12:00pm<br>Th 8:00am - 12:00pm | Seats (Total: 15)<br>PAC 2130A<br>Location: TBA | <br><br>Lab |

**MUED474** **Field Experiences: Pre-Student Teaching**

(Perm req)

*Prerequisite: MUED420 and MUED411; or (MUED472 and MUED471). Restriction: Permission of ARHU-School of Music department; and senior standing.*

*Field experiences to fulfill teaching requirements in K-12 music teacher education program.*

| | | |
|---|---|---|
| 0101 | Lauren McGinley, Jessica Haley<br>F 8:00am - 8:50am<br>Contact instructor or department for details. | Seats (Total: 15)<br>PAC 2130A |

**MUED484** **Student Teaching in Elementary School: Music**

(Perm req)

*Corequisite: MUED494. Restriction: Permission of ARHU-School of Music department; and must be in Music Education program.*

*Fulfills elementary teaching requirements in K-12 music teacher education program. Limited to music education majors who have previously applied.*

| | | |
|---|---|---|
| 0101 | Amy Sierzega, Stacia Pratt<br>Th 5:00pm - 6:30pm<br>Contact instructor or department for details. | Seats (Total: 15)<br>PAC 2130A |

**MUED494** **Student Teaching in Secondary School: Music**

(Perm req)

*Corequisite: MUED484. Restriction: Permission of ARHU-School of Music department; and must be in Music Education program.*

*Fulfill secondary teaching requirements in K-12 music teacher education program. Limited to music education majors who have previously applied.*

Students must pay a $750.00 student teaching fee.

| | | |
|---|---|---|
| 0101 | Stacia Pratt, Amy Sierzega<br>Contact instructor or department for details.<br>Contact instructor or department for details. | Seats (Total: 15) |

**MUED672** **Advanced Instrumental Methods in Music Education**

*Restriction: Permission of ARHU-School of Music department.*

*Teaching instrumental music in the K-12 setting, including recruiting, literature selection, curriculum, rehearsal techniques, and pedagogical approaches.*

| | | |
|---|---|---|
| 0101 | Mike Hewitt<br>M 5:00pm - 7:30pm | Seats (Total: 10)<br>PAC 2130A |

**MUED692** **Foundations and Perspectives of Music Education**

*Restriction: Permission of ARHU-School of Music department.*

*An introduction to historical, sociological, and philosophical perspectives of music education.*

| | | |
|---|---|---|
| 0101 | Adam Grise<br>W 5:00pm - 7:30pm | Seats (Total: 15)<br>PAC 2164 |

**MUED697** **Curriculum & Assessment in Music Education**

*Theoretical and practical knowledge related to curriculum,assessment, and evaluation in music education. Course topics include: a) aspects of philosophy,sequencing, and design in music curricula; b) reliability, validity, and fairness in assessment; c) planning for and designing assessment of student knowledge and skills; d) policy, procedures, and outcomes associated with music teacher evaluation.*

| | | |
|---|---|---|
| 0101 | Stephanie Prichard<br>Contact instructor or department for details. | Seats (Total: 10) |

**MUED698V** **Current Trends in Music Education; Vocal Pedagogy for the Choral Conductor**

(Perm req)

*A survey of current and emerging philosophies, methodologies and curricula in music education and their implementation. The influence of educational and social changes and the expanding musical scene upon the music programs for children of all ages and for teacher education.*

| | | |
|---|---|---|
| 0101 | Kenneth Elpus<br>W 4:00pm - 6:30pm | Seats (Total: 5)<br>Location: TBA |

**MUED729** **Doctoral Colloquium in Music Education**

(Perm req)

*For students in PhD Progam in Music Education. Meets approximately 4-5 times per semester to read and discuss current work in the field, interact with visiting speakers, share work in progress, learn new tools and methods, and hear research presentations from one another*

| | | |
|---|---|---|
| 0101 | Stephanie Prichard<br>Contact instructor or department for details. | Seats (Total: 10) |

**MUED790** **Design and Analysis of Research in Music Education**

(Perm req)

*Prerequisite: Must have completed a college-level statistics course. And MUED690; or an equivalent master's level research in music education course.*

*Advanced applications of quantitative and qualitative social science research paradigms to research problems in the field of music education. Topics include the formation of researchable questions; the design of experimental, quasi-experimental, descriptive, and qualitative research studies; and the analysis and interpretation of research data.*

| | | |
|---|---|---|
| 0101 | Kenneth Elpus<br>MW 2:00pm - 3:20pm | Seats (Total: 10)<br>PAC 2130A |

# MUSC School of Music Fall 2024

**MUSC001** **MUSP Course Evaluation**

(Perm req)

**Contact department for information to register for this course.**

**MUSC099** **Performance Attendance**

(Perm req)

*Performance attendance laboratory for undergraduate music majors.*

| | | |
|---|---|---|
| 0101 | Jenna Bachmann<br>Contact instructor or department for details. | Seats (Total: 200) |

**MUSC102** **Class Piano**

(Perm req)

*Functional piano training for beginners. Development of techniques for school and community playing. Basic piano techniques; chord, arpeggio and scale techniques; melody and song playing; simple accompaniments, improvisation for accompaniments and rhythms; sight reading and transposition and playing by ear.*

For MUSC majors only.

| | | |
|---|---|---|
| 0101 | Jared Yoakem<br>MWF 8:00am - 8:50am | Seats (Total: 14)<br>PAC 1123 |
| 0201 | Johnny Shaw<br>MWF 3:00pm - 3:50pm | Seats (Total: 14)<br>PAC 1123 |
| 0301 | Mingyue Li<br>TuTh 9:30am - 10:45am | Seats (Total: 12)<br>PAC 1123 |

**MUSC102B** **Class Piano**

*Functional piano training for beginners. Development of techniques for school and community playing. Basic piano techniques; chord, arpeggio and scale techniques; melody and song playing; simple accompaniments, improvisation for accompaniments and rhythms; sight reading and transposition and playing by ear.*

| | | |
|---|---|---|
| 0101 | Mingyue Li<br>TuTh 11:00am - 12:15pm | Seats (Total: 14)<br>PAC 1123 |

**MUSC106** **Beginning Classical Guitar**

*Introduction to classical guitar notation, technique, literature and performance. No previous musical experience required.*

For students with no previous musical experience.

| | | |
|---|---|---|
| 0101 | Gerard Kunkel<br>MW 11:00am - 11:50am | Seats (Total: 12)<br>PAC 1230 |

**MUSC123** **Movement for Singers**

(Perm req)

*Prerequisite: Permission of ARHU-School of Music department.*

*Systematic exercises, improvisations and dances in conjunction with artistic vocal expression. Performance and critique of stage deportment, gestures and recital techniques.*

| | | |
|---|---|---|
| 0101 | Allison Brault<br>Tu 6:15pm - 7:45pm | Seats (Total: 15)<br>TWS 1121 |

**MUSC127** **Vocal Diction: Italian**

(Perm req)

*Prerequisite: Permission of ARHU-School of Music department. Restriction: Must be in a major within the ARHU-School of Music department.*

*Augmentation of private voice study. Phonetics and diction for singers of Italian vocal literature.*

| | | |
|---|---|---|
| 0101 | Diba Alvi<br>TuTh 2:00pm - 2:50pm | Seats (Total: 15)<br>PAC 3164 |

**MUSC128** **Sight Reading For Pianists**

(Perm req)

*A course to give the piano major an opportunity to develop proficiency in sight reading at the keyboard.*

| | | |
|---|---|---|
| 0101 | Jared Yoakem<br>MW 10:00am - 10:50am | Seats (Total: 5)<br>PAC 1123 |

**MUSC129A** **Ensemble; Chamber Music - Strings**

(Perm req)

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

For MUSC majors only.

| | | | |
|---|---|---|---|
| 0101 | James Stern<br>**Meets September 3, 2024 - December 9, 2024** | Seats (Total: 45) | |
| | TuTh 11:00am - 12:15pm | PAC 2201 | Lab |

**MUSC129B** **Ensemble; Chamber Woodwinds**

(Perm req)

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

For MUSC majors only.

| | | | |
|---|---|---|---|
| 0101 | Emily Tsai<br>**Meets September 3, 2024 - December 9, 2024** | Seats (Total: 40) | |
| | TuTh 11:00am - 12:15pm | PAC 2201 | Lab |

**MUSC129C** **Ensemble; Chamber Music - Brasses**

(Perm req)

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

For MUSC majors only.

| | | | |
|---|---|---|---|
| 0101 | Myles Blakemore<br>**Meets September 3, 2024 - December 9, 2024** | Seats (Total: 30) | |
| | TuTh 11:00am - 12:15pm | PAC 2201 | Lab |

**MUSC129D** **Ensemble; Steelband**

(Perm req)

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

| | | | |
|---|---|---|---|
| 0101 | Josanne Francis | Seats (Total: 18) | |
| | Tu 5:30pm - 7:00pm | PAC 2170 | |

**MUSC129E** **Ensemble; Advanced Steelband**

(Perm req)

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

| | | | |
|---|---|---|---|
| 0101 | Josanne Francis | Seats (Total: 18) | |
| | Tu 7:00pm - 8:30pm | PAC 2170 | |

**MUSC129G** **Ensemble; Balinese Gamelan**

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

| | | | |
|---|---|---|---|
| 0101 | I Suadin | Seats (Total: 20) | |
| | Th 7:00pm - 8:30pm | PAC 1230 | Lab |

**MUSC129K** **Ensemble; Japanese Koto**

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

| | | | |
|---|---|---|---|
| 0101 | Yuriko Gandolfo | Seats (Total: 7) | |
| | Tu 5:30pm - 7:00pm | PAC 3160 | Lab |

**MUSC129L** **Ensemble; Advanced Japanese Koto**

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

| | | | |
|---|---|---|---|
| 0101 | Yuriko Gandolfo | Seats (Total: 4) | |
| | Tu 7:00pm - 8:30pm | PAC 3160 | Lab |

**MUSC129P** **Ensemble; Percussion**

(Perm req)

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

| | | | |
|---|---|---|---|
| 0101 | Jonathan Bisesi | Seats (Total: 15) | |
| | M 5:00pm - 7:00pm | PAC 2540 | Lab |
| | W 5:00pm - 6:30pm | PAC 2540 | Lab |

**MUSC129Q** **Ensemble; Korean Percussion Ensemble**

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

| | | | |
|---|---|---|---|
| 0101 | Sebastian Wang<br>W 7:00pm - 8:30pm | Seats (Total: 8)<br>PAC 2170 | |

**MUSC140** **Music Fundamentals I**

*Restriction: Must not be in any of the following programs (Music (Professional Program); Music Education).*

*Introductory theory course. Notation, scales, intervals, triads, rhythm, form and basic aural skills.*

| | | | |
|---|---|---|---|
| 0101 | Michael Sauer<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 18)<br>PAC 2168<br>PAC 1108 | <br><br>Discussion |
| 0201 | Michael Sauer<br>MW 12:00pm - 12:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 18)<br>PAC 2168<br>PAC 1108 | <br><br>Discussion |
| FC01 | Johannes Visser<br>Tu 3:00pm - 4:15pm<br>Th 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 13)<br>PAC 3160<br>PAC 1108 | <br><br>Discussion |

**MUSC150** **Theory of Music I**

(Perm req)

*Prerequisite: Departmental audition and entrance examination. Restriction: Must be in one of the following programs (Music (Liberal Arts Program); Music (Jazz Performance Option); Music (Winds & Percussions Performance Option); Music (Voice Performance Option); Music Composition; Music (Professional Program); Music (Piano Performance Option); Music Performance-Winds and Percussion; Music Theory and Composition; Music Performance-Piano; Music Performance-Jazz Studies; Music Performance-Voice; Music Performance-Strings; Music (Strings Performance Option)).*

*A study of basic concepts and skills in tonal melody and harmony through analysis and composition.*

| | | | |
|---|---|---|---|
| 0101 | Richard Layton<br>MWF 8:00am - 8:50am<br>TuTh 8:25am - 9:15am | Seats (Total: 6)<br>PAC 2160<br>PAC 3168 | <br><br>Lab |

| | | | |
|---|---|---|---|
| 0102 | Richard Layton<br>MWF 8:00am - 8:50am<br>TuTh 9:30am - 10:20am | Seats (Total: 6)<br>PAC 2160<br>PAC 3168 | <br><br>Lab |
| 0201 | Richard Layton<br>MWF 9:00am - 9:50am<br>TuTh 8:25am - 9:15am | Seats (Total: 6)<br>PAC 2160<br>PAC 2164 | <br><br>Lab |
| 0202 | Richard Layton<br>MWF 9:00am - 9:50am<br>TuTh 9:30am - 10:20am | Seats (Total: 6)<br>PAC 2160<br>PAC 2164 | <br><br>Lab |
| 0301 | Gretchen Horlacher<br>MWF 10:00am - 10:50am<br>TuTh 8:25am - 9:15am | Seats (Total: 6)<br>PAC 2160<br>PAC 2168 | <br><br>Lab |
| 0302 | Gretchen Horlacher<br>MWF 10:00am - 10:50am<br>TuTh 9:30am - 10:20am | Seats (Total: 6)<br>PAC 2160<br>PAC 2168 | <br><br>Lab |
| 0401 | Sean Klink<br>MWF 11:00am - 11:50am<br>TuTh 8:25am - 9:15am | Seats (Total: 6)<br>PAC 2160<br>PAC 3164 | <br><br>Lab |
| 0402 | Sean Klink<br>MWF 11:00am - 11:50am<br>TuTh 9:30am - 10:20am | Seats (Total: 6)<br>PAC 2160<br>PAC 3164 | <br><br>Lab |

**MUSC202** **Intermediate Class Piano I**

(Perm req)

*Prerequisite: MUSC103; or must have equivalent piano training.*

*Advanced keyboard techniques. Continuation of skills introduced in MUSC103. Transposition, modulation and sight reading; methods of teaching functional piano.*

Only for voice and instrumental principals with limited piano experience.

| | | | |
|---|---|---|---|
| 0101 | Johnny Shaw<br>MWF 9:00am - 9:50am | Seats (Total: 15)<br>PAC 1123 | |

**MUSC204** **Popular Music in Black America**

*Traces black popular music in the U.S. with a special focus on spirituals, ragtime, the blues, early jazz, R&B, Motown, funk, soul, and rap. Examines how these styles have been borrowed by the American music industry.*

| | | | |
|---|---|---|---|
| 0101 | Matthew Valnes<br>MW 12:00pm - 12:50pm<br>F 9:00am - 9:50am | Seats (Total: 15)<br>TMH 0301<br>PAC 3168 | Discussion |
| 0102 | Matthew Valnes<br>MW 12:00pm - 12:50pm<br>F 10:00am - 10:50am | Seats (Total: 15)<br>TMH 0301<br>PAC 3168 | Discussion |
| 0103 | Matthew Valnes<br>MW 12:00pm - 12:50pm<br>F 11:00am - 11:50am | Seats (Total: 15)<br>TMH 0301<br>PAC 3168 | Discussion |
| 0104 | Matthew Valnes<br>MW 12:00pm - 12:50pm<br>F 9:00am - 9:50am | Seats (Total: 15)<br>TMH 0301<br>PAC 3160 | Discussion |
| 0105 | Matthew Valnes<br>MW 12:00pm - 12:50pm<br>F 10:00am - 10:50am | Seats (Total: 15)<br>TMH 0301<br>PAC 3160 | Discussion |
| 0106 | Matthew Valnes<br>MW 12:00pm - 12:50pm<br>F 11:00am - 11:50am | Seats (Total: 15)<br>TMH 0301<br>PAC 3160 | Discussion |
| 0107 | Matthew Valnes<br>MW 12:00pm - 12:50pm<br>F 9:00am - 9:50am | Seats (Total: 15)<br>TMH 0301<br>ATL 1106 | Discussion |
| 0108 | Matthew Valnes<br>MW 12:00pm - 12:50pm<br>F 10:00am - 10:50am | Seats (Total: 15)<br>TMH 0301<br>ATL 1106 | Discussion |
| 0109 | Matthew Valnes<br>MW 12:00pm - 12:50pm<br>F 11:00am - 11:50am | Seats (Total: 15)<br>TMH 0301<br>ATL 1106 | Discussion |

**MUSC205 History of Popular Music, 1950-Present**

*A historical survey of rock music (blues, rock, soul, metal, rap, etc.) from circa 1950 to the present, with emphasis on popular music as music and popular music as social history.*

| | | | |
|---|---|---|---|
| 0101 | Kelsey Klotz<br>MW 11:00am - 11:50am<br>F 9:00am - 9:50am | Seats (Total: 16)<br>ARC 0204<br>PAC 2164 | Discussion |
| 0102 | Kelsey Klotz<br>MW 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 16)<br>ARC 0204<br>PAC 2164 | Discussion |
| 0103 | Kelsey Klotz<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 16)<br>ARC 0204<br>PAC 2164 | Discussion |
| 0104 | Kelsey Klotz<br>MW 11:00am - 11:50am<br>F 9:00am - 9:50am | Seats (Total: 16)<br>ARC 0204<br>PAC 2168 | Discussion |
| 0105 | Kelsey Klotz<br>MW 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 16)<br>ARC 0204<br>PAC 2168 | Discussion |
| 0106 | Kelsey Klotz<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 16)<br>ARC 0204<br>PAC 2168 | Discussion |
| 0107 | Kelsey Klotz<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 16)<br>ARC 0204<br>PAC 2200 | Discussion |
| 0108 | Kelsey Klotz<br>MW 11:00am - 11:50am<br>F 12:00pm - 12:50pm | Seats (Total: 16)<br>ARC 0204<br>PAC 2200 | Discussion |
| 0109 | Kelsey Klotz<br>MW 11:00am - 11:50am<br>F 1:00pm - 1:50pm | Seats (Total: 16)<br>ARC 0204<br>PAC 2200 | Discussion |
| 0110 | Kelsey Klotz<br>MW 11:00am - 11:50am<br>F 9:00am - 9:50am | Seats (Total: 16)<br>ARC 0204<br>PAC 3164 | Discussion |

| | | | |
|---|---|---|---|
| 0111 | Kelsey Klotz<br>MW 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 16)<br>ARC 0204<br>PAC 3164 | Discussion |
| 0112 | Kelsey Klotz<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 16)<br>ARC 0204<br>PAC 3164 | Discussion |
| FC01 | Matthew Valnes<br>MW 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 32)<br>SQH 1101 | |

**MUSC210** **The Impact of Music on Life**

*Credit only granted for: MUET210 or MUSC210. Formerly: MUET210.*

*Music as a part of culture. Materials drawn from traditions throughout the globe to illustrate issues of historical and contemporary significance, including the impact of race, class and gender on the study of music.*

| | | | |
|---|---|---|---|
| 0101 | Nicole Powlison<br>MW 1:00pm - 1:50pm<br>F 10:00am - 10:50am | Seats (Total: 16)<br>ASY 2203<br>PAC 1815 | Discussion |
| 0102 | Nicole Powlison<br>MW 1:00pm - 1:50pm<br>F 11:00am - 11:50am | Seats (Total: 16)<br>ASY 2203<br>PAC 1815 | Discussion |
| 0103 | Nicole Powlison<br>MW 1:00pm - 1:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 16)<br>ASY 2203<br>PAC 1815 | Discussion |
| 0104 | Nicole Powlison<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 16)<br>ASY 2203<br>PAC 1815 | Discussion |
| 0105 | Nicole Powlison<br>MW 1:00pm - 1:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 16)<br>ASY 2203<br>PAC 1815 | Discussion |
| 0106 | Nicole Powlison<br>MW 1:00pm - 1:50pm<br>F 3:00pm - 3:50pm | Seats (Total: 16)<br>ASY 2203<br>PAC 1815 | Discussion |

| | | | |
|---|---|---|---|
| 0107 | Nicole Powlison<br>MW 1:00pm - 1:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 16)<br>ASY 2203<br>PAC 2168 | Discussion |
| 0108 | Nicole Powlison<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 16)<br>ASY 2203<br>PAC 2168 | Discussion |
| 0109 | Nicole Powlison<br>MW 1:00pm - 1:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 16)<br>ASY 2203<br>PAC 2168 | Discussion |
| 0110 | Nicole Powlison<br>MW 1:00pm - 1:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 16)<br>ASY 2203<br>PAC 3168 | Discussion |
| 0111 | Nicole Powlison<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 16)<br>ASY 2203<br>PAC 3168 | Discussion |
| 0112 | Nicole Powlison<br>MW 1:00pm - 1:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 16)<br>ASY 2203<br>PAC 3168 | Discussion |

**MUSC215** **World Popular Musics and Identity**

*Credit only granted for: MUET200 or MUSC215. Formerly: MUET200.*

*Focus on popular musics in different cultures with an emphasis on cross-cultural comparisons and analysis of how musics and identity intersect.*

| | | | |
|---|---|---|---|
| 0101 | Laura Schnitker<br>MW 12:00pm - 12:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 17)<br>JMZ 0220<br>TWS 0201 | Discussion |
| 0102 | Laura Schnitker<br>MW 12:00pm - 12:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 17)<br>JMZ 0220<br>TWS 0201 | Discussion |
| 0103 | Laura Schnitker<br>MW 12:00pm - 12:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 17)<br>JMZ 0220<br>TWS 0201 | Discussion |

| | | | | |
|---|---|---|---|---|
| 0104 | Laura Schnitker<br>MW 12:00pm - 12:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 17)<br>JMZ 0220<br>PAC 1809 | Discussion |
| 0105 | Laura Schnitker<br>MW 12:00pm - 12:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 17)<br>JMZ 0220<br>PAC 1809 | Discussion |
| 0106 | Laura Schnitker<br>MW 12:00pm - 12:50pm<br>F 3:00pm - 3:50pm | Seats (Total: 17)<br>JMZ 0220<br>PAC 1809 | Discussion |
| 0107 | Laura Schnitker<br>MW 12:00pm - 12:50pm<br>F 11:00am - 11:50am | Seats (Total: 17)<br>JMZ 0220<br>EDU 2102 | Discussion |
| 0108 | Laura Schnitker<br>MW 12:00pm - 12:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 17)<br>JMZ 0220<br>EDU 2102 | Discussion |
| 0109 | Laura Schnitker<br>MW 12:00pm - 12:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 17)<br>JMZ 0220<br>EDU 2102 | Discussion |

**MUSC227** **Vocal Diction: German**

(Perm req)

*Prerequisite: Permission of ARHU-School of Music department. Restriction: Must be in a major within ARHU-School of Music department.*

*Augmentation of private study. Phonetics and diction for singers of German vocal literature.*

| | | | |
|---|---|---|---|
| 0101 | Diba Alvi<br>TuTh 11:00am - 11:50am | Seats (Total: 15)<br>PAC 3164 | |

**MUSC228** **Introduction to Accompanying for Pianists**

*A course to introduce the piano major to accompanying at an intermediate level of difficulty. Class instruction will center on rehearsal and coaching geared toward performance, and will be supplemented by experience working as an accompanist in voice classes or applied studios.*

| | | | |
|---|---|---|---|
| 0101 | Mai-Linh Pham<br>Tu 4:00pm - 6:00pm | Seats (Total: 10)<br>PAC 2126 | |

**MUSC229A** **Ensemble; Symphony Orchestra**

(Perm req)

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

Audition required before permission of department will be granted, contact instructor to make arrangements.

| | | | |
|---|---|---|---|
| 0101 | David Neely<br>TuTh 3:30pm - 6:30pm | Seats (Total: 70)<br>PAC 1230 | <br>Lab |
| FC01 | David Neely<br>TuTh 3:30pm - 6:30pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 1)<br>PAC 1230 | <br>Lab |

**MUSC229D** **Ensemble; Wind Orchestra**

(Perm req)

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

Open by audition, contact instructor to make arrangements.

| | | | |
|---|---|---|---|
| 0101 | Michael Votta<br>TuTh 3:30pm - 6:30pm | Seats (Total: 75)<br>PAC 2540 | <br>Lab |

**MUSC229E** **Ensemble; Wind Ensemble**

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

Open by audition, contact instructor to make arrangements.

| | | | |
|---|---|---|---|
| 0101 | Andrea Brown<br>MWF 11:00am - 12:45pm | Seats (Total: 75)<br>PAC 2540 | <br>Lab |
| FC01 | Andrea Brown<br>MWF 11:00am - 12:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 5)<br>PAC 2540 | <br>Lab |

**MUSC229F** **Ensemble; Marching Band**

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

Open by audition.

| | | | |
|---|---|---|---|
| 0101 | Andrea Brown, Jeremy Maytum, Craig Potter<br>MWF 3:00pm - 5:00pm | Seats (Total: 300)<br>PAC 2540 | <br>Lab |
| FC01 | Jeremy Maytum, Craig Potter, Andrea Brown<br>MWF 3:00pm - 5:00pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 10)<br>PAC 2540 | <br>Lab |

**MUSC229G** **Ensemble; Marching Band: Woodwinds and Brass**

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

Corequisite: MUSC 229F.

| | | | |
|---|---|---|---|
| 0101 | Andrea Brown, Jeremy Maytum, Craig Potter<br>Tu 6:30pm - 8:30pm | Seats (Total: 300)<br>PAC 2540 | <br>Lab |
| FC01 | Jeremy Maytum, Craig Potter, Andrea Brown<br>Tu 6:30pm - 8:30pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 10)<br>PAC 2540 | <br>Lab |

**MUSC229I** **Ensemble; Marching Band: Drumline and Auxiliary**

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

Corequisite: MUSC 229F.

| | | | |
|---|---|---|---|
| 0101 | Jeremy Maytum, Andrea Brown, Craig Potter<br>Tu 6:30pm - 8:30pm<br>Th 6:30pm - 8:30pm | Seats (Total: 75)<br>PAC 2540<br>PAC 2540 | <br>Lab<br>Lab |

| | | | |
|---|---|---|---|
| FC01 | Jeremy Maytum, Andrea Brown, Craig Potter | Seats (Total: 10) | |
| | Tu 6:30pm - 8:30pm | PAC 2540 | Lab |
| | Th 6:30pm - 8:30pm | PAC 2540 | Lab |
| | *Restricted to students in Freshmen Connection.* | | |

**MUSC229J** **Ensemble; Jazz Ensemble**

(Perm req)

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

Audition required before permission of department will be granted, contact instructor to make arrangements.

| | | | |
|---|---|---|---|
| 0101 | Mark Williams | Seats (Total: 25) | |
| | MW 5:30pm - 7:15pm | PAC 1230 | Lab |
| 0201 | Tim Powell | Seats (Total: 30) | |
| | MW 1:00pm - 2:20pm | PAC 1230 | Lab |
| 0301 | Hart Guonjian-Pettit | Seats (Total: 30) | |
| | M 7:30pm - 9:30pm | PAC 1230 | Lab |
| FC01 | Tim Powell | Seats (Total: 3) | |
| | MW 1:00pm - 2:20pm | PAC 1230 | Lab |
| | *Restricted to students in Freshmen Connection.* | | |

**MUSC229K** **Ensemble; Marching Band Dance Team**

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

| | | | |
|---|---|---|---|
| 0101 | Ann Kennedy | Seats (Total: 35) | |
| | Su 7:00pm - 9:30pm | Location: TBA | Lab |
| | TuTh 6:30pm - 9:00pm | Location: TBA | Lab |
| FC01 | Andrea Brown, Ann Kennedy, Craig Potter | Seats (Total: 10) | |
| | Su 7:00pm - 9:30pm | Location: TBA | Lab |
| | TuTh 6:30pm - 9:00pm | Location: TBA | Lab |
| | *Restricted to students in Freshmen Connection.* | | |

**MUSC229P** **Ensemble; Pep Band**

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

| | | | |
|---|---|---|---|
| 0101 | Craig Potter, Andrea Brown<br>M 7:00pm - 9:00pm | Seats (Total: 100)<br>PAC 2540 | <br>Lab |
| FC01 | Craig Potter, Andrea Brown<br>M 7:00pm - 9:00pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 60)<br>PAC 2540 | <br>Lab |

**MUSC229R** **Ensemble; University Orchestra**

(Perm req)

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

Audition required before permission of department will be granted, contact instructor to make arrangements.

| | | | |
|---|---|---|---|
| 0101 | Andrew Samlal<br>MW 3:00pm - 5:00pm | Seats (Total: 55)<br>PAC 1230 | <br>Lab |
| FC01 | Andrew Samlal<br>MW 3:00pm - 5:00pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 10)<br>Location: TBA | <br>Lab |

**MUSC229U** **Ensemble; University Band**

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

Open by audition, contact instructor to make arrangements.

| | | | |
|---|---|---|---|
| 0101 | Craig Potter<br>W 6:30pm - 8:30pm | Seats (Total: 100)<br>PAC 2540 | <br>Lab |
| FC01 | Craig Potter<br>W 6:30pm - 8:30pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 10)<br>PAC 2540 | <br>Lab |

**MUSC229Z** **Ensemble; Jazz Combo**

(Perm req)

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

Audition required before permission of department will be granted, contact instructor to make arrangements.

| | | | |
|---|---|---|---|
| 0101 | Gerard Kunkel<br>Contact instructor or department for details. | Seats (Total: 10) | |
| 0201 | Thomas Baldwin<br>Tu 5:00pm - 6:30pm | Seats (Total: 10)<br>Location: TBA | Lab |
| 0301 | Mark Williams<br>Contact instructor or department for details. | Seats (Total: 10) | |
| 0401 | Leigh Pilzer<br>Contact instructor or department for details. | Seats (Total: 10) | |
| 0501 | Mark Williams<br>Contact instructor or department for details. | Seats (Total: 10) | |

**MUSC240** **Elements of Music Composition for Non-Majors**

*Prerequisite: MUSC 140, or by permission of instructor. Recommended: Ability to read music on a grand staff (treble and bass clef). Restriction: Must not be in any of the following programs: (Music (Professional Program); Music Education). Credit only granted for: MUSC240 or HONR218M. Formerly: HONR218M.*

*Emphasizes learning concepts and techniques of music composition through the study of music theory and structure used in both classical and popular music forms. Students will compose music using computer assisted and composition tools. These tools include cloud based digital audio workstations and music notation programs. Compositions will be written in these musical styles but not limited to classical, jazz, and popular. Students will also explore methods of sharing their compositions on various digital platforms.*

| | | | |
|---|---|---|---|
| 0101 | William Evans<br>Tu 2:00pm - 4:30pm | Seats (Total: 18)<br>PAC 1108 | |

**MUSC250** **Advanced Theory of Music I**

(Perm req)

*Prerequisite: Minimum grade of C- in MUSC151.*

*A continuation of MUSC 151, with further study of chromatic and modulatory techniques of the nineteenth century. Emphasis on sight singing, ear training, analysis and compositional skills.*

| | | | |
|---|---|---|---|
| 0101 | Anna Nelson<br>TuTh 8:00am - 9:15am<br>MW 8:00am - 8:50am | Seats (Total: 5)<br>PAC 2160<br>PAC 2164 | <br><br>Lab |
| 0102 | Anna Nelson<br>TuTh 8:00am - 9:15am<br>MW 9:00am - 9:50am | Seats (Total: 5)<br>PAC 2160<br>PAC 2164 | <br><br>Lab |
| 0201 | Anna Nelson<br>TuTh 9:30am - 10:45am<br>MW 9:00am - 9:50am | Seats (Total: 6)<br>PAC 2160<br>PAC 3164 | <br><br>Lab |
| 0202 | Anna Nelson<br>TuTh 9:30am - 10:45am<br>MW 10:00am - 10:50am | Seats (Total: 6)<br>PAC 2160<br>PAC 3164 | <br><br>Lab |
| 0301 | Johannes Visser<br>TuTh 9:30am - 10:45am<br>MW 9:00am - 9:50am | Seats (Total: 6)<br>PAC 3160<br>PAC 3168 | <br><br>Lab |
| 0302 | Johannes Visser<br>TuTh 9:30am - 10:45am<br>MW 10:00am - 10:50am | Seats (Total: 6)<br>PAC 3160<br>PAC 3168 | <br><br>Lab |

**MUSC260** **Music as Global Culture**

(Perm req)

*Prerequisite: MUSC151. Restriction: Must be in a major within the ARHU-School of Music department. Credit only granted for: MUSC220 or MUSC260.*

*Explores how and why people create, transform, and move music around the globe. Taking a comparative approach to Western art musics and other musics of the world, course will examine a variety of musical practices in their social, political, and economic contexts. Experiential knowledge will be developed through hands-on ethnographic research.*

| | | | |
|---|---|---|---|
| 0101 | Brendan Kibbee<br>MW 2:00pm - 2:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 16)<br>PAC 2200<br>PAC 2160 | <br><br>Discussion |

| | | | | |
|---|---|---|---|---|
| 0102 | Brendan Kibbee | Seats (Total: 16) | | |
| | MW 2:00pm - 2:50pm<br>F 1:00pm - 1:50pm | PAC 2200<br>PAC 2160 | | Discussion |
| 0103 | Brendan Kibbee | Seats (Total: 16) | | |
| | MW 2:00pm - 2:50pm<br>F 2:00pm - 2:50pm | PAC 2200<br>PAC 2160 | | Discussion |
| 0104 | Brendan Kibbee | Seats (Total: 16) | | |
| | MW 2:00pm - 2:50pm<br>F 3:00pm - 3:50pm | PAC 2200<br>PAC 2160 | | Discussion |

**MUSC269R** **Special Topics in Study Abroad II; From Elvis to Rap: 50 Years of History As Seen Through Rock Music**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**MUSC329A** **Ensemble; University of Maryland Chorale**

(Perm req)

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

Audition required before permission of department will be granted, contact instructor to make arrangements. Monthly evening rehearsals will be scheduled as announced.

| | | | | |
|---|---|---|---|---|
| 0101 | Mary Kustas, Trevor Tran | Seats (Total: 75) | | |
| | TuTh 4:30pm - 6:00pm | PAC 2201 | | Lab |

**MUSC329B** **Ensemble; Chamber Singers**

(Perm req)

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

Audition required before permission of department will be granted, contact instructor to make arrangements. Monthly evening rehearsals will be scheduled as announced.

| | | | | |
|---|---|---|---|---|
| 0101 | Jason Ferdinand, Trevor Tran | Seats (Total: 50) | | |
| | MW 3:00pm - 3:50pm<br>TuTh 3:30pm - 4:20pm | PAC 2201<br>PAC 2201 | | Lab<br>Lab |

**MUSC329E** **Ensemble; Gospel Choir**

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

| | | | |
|---|---|---|---|
| 0101 | Anne Carswell | Seats (Total: 60) | |
| | Th 7:00pm - 10:00pm | PAC 2201 | Lab |

**MUSC329M** **Ensemble; Ensemble: Tactus (Tenor & Bass Choir)**

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

Monthly evening rehearsals will be scheduled as announced.

| | | | |
|---|---|---|---|
| 0101 | Eric Kim, Mary Kustas | Seats (Total: 40) | |
| | MWF 12:00pm - 12:50pm | PAC 1230 | Lab |
| | *Sharing with Craig Arnold's approval even though there are two different instructors.* | | |
| FC01 | Mary Kustas, Eric Kim | Seats (Total: 10) | |
| | MWF 12:00pm - 12:50pm | PAC 1230 | Lab |
| | *Restricted to students in Freshmen Connection.* | | |

**MUSC329O** **Ensemble; Opera Chorus**

(Perm req)

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

| | | | |
|---|---|---|---|
| 0101 | Jason Ferdinand | Seats (Total: 30) | |
| | F 3:30pm - 5:30pm | PAC 2170 | Lab |

**MUSC329W** **Ensemble; Treble Choir**

*Rehearsal and performance of selected works for small ensembles of instruments, piano, or small vocal groups. After two registrations in MUSC129, the student will elect MUSC229 for two additional semesters and MUSC329 thereafter.*

Monthly evening rehearsals will be scheduled as announced.

| | | | |
|---|---|---|---|
| 0101 | Kenneth Elpus, Julie Huang | Seats (Total: 60) | |
| | MWF 12:00pm - 12:50pm | PAC 2201 | Lab |

| | | | |
|---|---|---|---|
| FC01 | Kenneth Elpus, Julie Huang<br>MWF 12:00pm - 12:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 10)<br>PAC 2201 | Lab |

**MUSC361** **Music in Western Culture After 1900**

(Perm req)

*Prerequisite: MUSC360. Restriction: Must be in a major within the ARHU-School of Music department. Credit only granted for: MUSC330 or MUSC361.*

*Continuation of MUSC360. A historical study of Western classical music, popular music, and jazz since 1900.*

| | | | |
|---|---|---|---|
| 0101 | William Robin<br>MW 2:00pm - 2:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 16)<br>PAC 2201<br>PAC 3160 | Discussion |
| 0102 | William Robin<br>MW 2:00pm - 2:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 16)<br>PAC 2201<br>PAC 3160 | Discussion |
| 0103 | William Robin<br>MW 2:00pm - 2:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 16)<br>PAC 2201<br>PAC 3160 | Discussion |
| 0104 | William Robin<br>MW 2:00pm - 2:50pm<br>F 3:00pm - 3:50pm | Seats (Total: 16)<br>PAC 2201<br>PAC 3160 | Discussion |

**MUSC369M** **Special Topics in Study Abroad III; Masterpieces of Italian Opera**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**MUSC379** **Opera Workshop**

(Perm req)

*Open to music and non-music majors (by audition). Operatic production and performance, performance techniques and coaching, stage direction, set design, costume design and make-up. Repertory will include smaller operatic works, excerpts or scenes.*

| | | | |
|---|---|---|---|
| 0101 | Mai-Linh Pham, Corinne Hayes<br>MW 4:00pm - 6:00pm | Seats (Total: 15)<br>PAC 2170 | Lab |

**MUSC386** **Experiential Learning**

(Perm req)

*Prerequisite: Permission of ARHU-School of Music department. Restriction: Junior standing or higher.*

**Contact department for information to register for this course.**

**MUSC388** **Music Internship**

(Perm req)

*Pre-professional field work in music.*

**Contact department for information to register for this course.**

**MUSC389** **Music Internship Analysis**

(Perm req)

*Documentation and evaluation of field work experience.*

**Contact department for information to register for this course.**

**MUSC400S** **Music Pedagogy**

*Prerequisite: MUSP315; and permission of ARHU-School of Music department.*

*Conference course. A study of major pedagogical treatises in music, and an evaluation of pedagogical techniques, materials, and procedures.*

| | | |
|---|---|---|
| 0101 | Irina Muresanu | Seats (Total: 20) |
| | M 5:00pm - 7:30pm | PAC 3164 |

**MUSC428** **Repertoire Coaching of Vocal or Chamber Music**

(Perm req)

*A course for piano students who wish to go further than the work offered in MUSC128, MUSC228 and MUSC328 by becoming specialists in the areas of vocal coaching or chamber music coaching. Elements of pedagogy, conducting and responsible artistic decision-making for the entire musical production.*

| | | |
|---|---|---|
| 0101 | Rita Sloan | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**MUSC434** **Creating Historic Woodwinds**

(Perm req)

*In this class, students will learn the art of woodworking and blend techniques of modern and historic instrument-making methods. Using wood lathes, metalworking tools, 3d scanners and selective laser sintering 3d printers. Student teams will first train to acquire the skills needed to use fabrication equipment. Each mixed team will then share their individual discipline's skills to help contribute to the creation of a completed musical instrument. Along the way, we'll explore the historical and cultural context of instrument making and the musical period.*

| | | |
|---|---|---|
| 0101 | Robert DiLutis | Seats (Total: 7) |
| | Contact instructor or department for details. | |

**MUSC438** **Area Studies in Ethnomusicology**

(Perm req)

*Advanced study of musics in selected parts of the world.*

**Contact department for information to register for this course.**

**MUSC438G** **Area Studies in Ethnomusicology; Global Hip Hop**

(Perm req)

*Advanced study of musics in selected parts of the world.*

| | | |
|---|---|---|
| 0101 | Brendan Kibbee | Seats (Total: 12) |
| | TuTh 2:00pm - 3:15pm | PAC 3168 |

**MUSC443** **Solo Vocal Literature**

(Perm req)

*Prerequisite: MUSC330 and MUSC331; or students who have taken courses with comparable content may contact the department.*

*The study of solo vocal literature from the Baroque Cantata to the Art Song of the present. The Lied, Melodie, vocal chamber music and the orchestral song are examined.*

| | | |
|---|---|---|
| 0101 | Diba Alvi | Seats (Total: 10) |
| | TuTh 9:30am - 10:45am | PAC 2201 |

**MUSC444** **Wind and Percussion Literature**

(Perm req)

*Prerequisite: Permission of ARHU-School of Music department. Corequisite: MUSP420 or MUSP419.*

*Recital program notes and written projects in wind or percussion literature.*

**Contact department for information to register for this course.**

**MUSC446** **String Literature**

(Perm req)

*Prerequisite: MUSP316; and permission of ARHU-School of Music department.*

*Recital program notes and written projects in string literature.*

**Contact department for information to register for this course.**

**MUSC448** **Selected Topics in Music**

(Perm req)

**Contact department for information to register for this course.**

**MUSC448E** **Financial Entrepreneurship for Arts Leaders**

*Cross-listed with: ARHU340. Credit only granted for: ARHU340 or MUSC448E.*

*An introduction to financial entrepreneurship for the arts leader in order to prepare students for diverse and ever-changing careers in the arts and creative fields. Topics explored will include Professional Paperwork (resumes, cover letters, biographies, job searches), Financial Literacy (taxes, budgets, boards, tickets sales, musicians unions), Marketing (website development, social media, press packets, record labels vs. online distribution, headshots, audience development, community engagement, branded content), Communication (public speaking, writing), and Technology (online tools, computer software, peripherals, recording, photography/videography, on campus resources).*

| | | |
|---|---|---|
| 0101 | Elizabeth Schurgin<br>TuTh 9:30am - 10:45am | Seats (Total: 14)<br>PAC 2200 |
| 0102 | Elizabeth Schurgin<br>TuTh 9:30am - 10:45am | Seats (Total: 14)<br>PAC 1815 |

**MUSC448G** **Selected Topics in Music; History of Mass, from Machaut to the Present**

(Perm req)

| | | |
|---|---|---|
| 0101 | Barbara Haggh-Huglo<br>MW 9:30am - 10:45am | Seats (Total: 10)<br>PAC 3110A |

**MUSC448I** **Selected Topics in Music; Music & Dance: An Introduction to Choreomusical Analysis**

(Perm req)

Cross-listed with MUSC448I. Credit only granted for MUSC699I or MUSC448I.

| | | |
|---|---|---|
| 0101 | Gretchen Horlacher<br>W 11:00am - 1:30pm | Seats (Total: 10)<br>PAC 3164 |

**MUSC448K** **Selected Topics in Music; Music in the Early Modern City**

(Perm req)

| | | |
|---|---|---|
| 0101 | Barbara Haggh-Huglo<br>MW 11:00am - 12:15pm | Seats (Total: 12)<br>PAC 3110A |

**MUSC448W** **Selected Topics in Music; Instrumental Pedagogy**

(Perm req)

**Contact department for information to register for this course.**

**MUSC450** **Musical Form**

(Perm req)

*Prerequisite: MUSC251.*

*A study of the principles of organization in music with emphasis on eighteenth and nineteenth century European music. Reading and analysis of scores exemplifying the musical forms.*

| | | |
|---|---|---|
| 0101 | Daniel Zimmerman<br>TuTh 2:00pm - 3:15pm | Seats (Total: 18)<br>PAC 2164 |

**MUSC453** **Jazz Improvisation I**

(Perm req)

*Prerequisite: MUSC251; or students who have taken courses with comparable content may contact the department. And permission of ARHU-School of Music department. Credit only granted for: MUSC345 or MUSC453. Formerly: MUSC345.*

*Jazz theory, notational conventions, improvisation techniques, reading and analysis of music, and performance in small combo format.*

| | | |
|---|---|---|
| 0101 | Mark Williams<br>M 3:00pm - 5:30pm<br>Contact instructor or department for details. | Seats (Total: 8)<br>PAC 1208 |

**MUSC455** **Theory of Jazz**

(Perm req)

*Prerequisite: MUSC250; or permission of ARHU-School of Music department. Restriction: Must be in a major within ARHU-School of Music department.*

*Analysis of jazz harmony, with emphasis on principles of substitution, reharmonization, and syntax. Topics may also include chord/scale relationships, phrasing and articulation, notation, and introductory arranging concepts such as orchestration and form.*

| | | |
|---|---|---|
| 0101 | Leigh Pilzer<br>MW 2:30pm - 3:45pm | Seats (Total: 12)<br>PAC 3168 |

**MUSC460** **Tonal Counterpoint I**

(Perm req)

*Prerequisite: MUSC251; or permission of ARHU-School of Music department.*

*A course in Eighteenth-Century contrapuntal techniques, analysis and original composition of two-voice dances, preludes, and inventions. Includes an introduction to the study of fugue and canon.*

| | | |
|---|---|---|
| 0101 | Johannes Visser<br>TuTh 11:00am - 12:15pm | Seats (Total: 12)<br>PAC 3160 |

**MUSC464** **The Theories of Heinrich Schenker**

*Prerequisite: MUSC251 and MUSC450; and permission of ARHU-School of Music department. Restriction: Must not have completed MUSC651. Credit only granted for: MUSC464 or MUSC651.*

*An advanced analysis course in tonal music with specific emphasis on the theories of the early 20th century theorist Heinrich Schenker. Specific analyses of music by Bach, Mozart, Haydn, Beethoven, Chopin, and Brahms.*

| | | |
|---|---|---|
| 0101 | Thomas DeLio<br>W 2:00pm - 4:30pm | Seats (Total: 8)<br>PAC 2164 |

**MUSC467** **Piano Pedagogy I**

*Prerequisite: Permission of ARHU-School of Music department.*

*A study of major pedagogical treatises in music, and an evaluation of pedagogical techniques, materials, and procedures.*

| | | |
|---|---|---|
| 0101 | Mayron Tsong<br>MW 11:00am - 12:15pm | Seats (Total: 15)<br>PAC 2164 |

**MUSC469C** **Orchestral Excerpts for String Players; Violin**

(Perm req)

*In-depth study of the orchestral excerpts required for professional orchestra auditions.*

Restriction: Permission of department.

| | | |
|---|---|---|
| 0101 | David Salness<br>Contact instructor or department for details. | Seats (Total: 10) |

**MUSC469D** **Orchestral Excerpts for String Players; Viola**

(Perm req)

*In-depth study of the orchestral excerpts required for professional orchestra auditions.*

Restriction: permission of department.

| | | |
|---|---|---|
| 0101 | Daniel Foster<br>Contact instructor or department for details. | Seats (Total: 10) |

**MUSC469E** **Orchestral Excerpts for String Players; Orchestral Excerpts for String Players: Cello**

(Perm req)

*In-depth study of the orchestral excerpts required for professional orchestra auditions.*

| | | |
|---|---|---|
| 0101 | Loewi Lin<br>Contact instructor or department for details. | Seats (Total: 10) |

**MUSC469F** **Orchestral Excerpts for String Players; Bass**

(Perm req)

*In-depth study of the orchestral excerpts required for professional orchestra auditions.*

| | | |
|---|---|---|
| 0101 | Richard Barber<br>W 4:30pm - 5:45pm | Seats (Total: 15)<br>Location: TBA |

**MUSC469V** **Orchestral Excerpts for String Players; Harp**

(Perm req)

*In-depth study of the orchestral excerpts required for professional orchestra auditions.*

| | | |
|---|---|---|
| 0101 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 10) |

**MUSC484** **Music in the Romantic Era**

*Survey of western music from 1820 to 1900.*

| | | |
|---|---|---|
| 0101 | Olga Haldey<br>W 3:30pm - 6:00pm | Seats (Total: 20)<br>PAC 3160 |

**MUSC490** **Conducting**

(Perm req)

*Prerequisite: MUSC251.*

*Vocal and instrumental baton techniques.*

| | | |
|---|---|---|
| 0101 | Andrea Brown<br>MWF 9:00am - 9:50am | Seats (Total: 12)<br>PAC 2540 |
| 0201 | Jason Ferdinand<br>MWF 1:00pm - 1:50pm | Seats (Total: 12)<br>PAC 2201 |

**MUSC492** **Keyboard Music I**

(Perm req)

*Prerequisite: Permission of ARHU-School of Music department.*

*The history and literature of harpsichord and solo piano music from its beginning to the romantic period. Emphasis is placed on those segments of repertory which are encountered in performance and teaching situations at the present time.*

| | | |
|---|---|---|
| 0101 | Mayron Tsong<br>MW 11:00am - 12:15pm | Seats (Total: 15)<br>PAC 3160 |

**MUSC499** **Independent Studies**

(Perm req)

*Independent research on a topic chosen in consultation with the instructor, which may culminate in a paper or appropriate project.*

**Contact department for information to register for this course.**

**MUSC550** **Theory of Music Graduate Review**

(Perm req)

*Restriction: Permission of ARHU-School of Music department.*

*Music theory review for graduate students:aural training, counterpoint, basic diatonic harmony, chromatic harmony, and analysis of complete works.*

| | | |
|---|---|---|
| 0101 | Anna Nelson<br>TuTh 2:00pm - 3:15pm | Seats (Total: 15)<br>PAC 2160 |

**MUSC601** **Advanced English Lyric Diction**

(Perm req)

*Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)) . And permission of instructor; or admission to graduate voice program.*

*Concepts, strategies and techniques for singing operatic, oratorio and song literature in English: stress patterns, linkage, stressed and non stressed vowels, dipthongs, placement of consonants and vowels, and communication of text with emphasis on current performance practices. Use of the International Phonetic Alphabet (IPA) will be stressed.*

| | | |
|---|---|---|
| 0101 | Natalie Conte<br>Tu 10:30am - 12:00pm | Seats (Total: 15)<br>PAC 1218 |

**MUSC603** **Advanced German Lyric Diction**

*Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)) . And permission of instructor; or admission to graduate voice program.*

*Concepts, strategies and techniques for singing operatic and song literature in German: single and double consonants, the use of the glottal, the German closed (e) and (o) vowels, the "schwa" and consonant clusters. Mastery of the International Phonetic Alphabet (IPA) as it applies to "Hochdeutsch" will be expected.*

| | | |
|---|---|---|
| 0101 | Delores Ziegler<br>Tu 10:30am - 12:00pm | Seats (Total: 15)<br>PAC 2170 |

**MUSC605** **Opera Repertory I**

(Perm req)

*Prerequisite: MUSC602; or permission of instructor. Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)).*

*Advanced vocal coaching of selections from the Italian, French, German, and English opera repertory: musical accuracy; language facility; diction clarity; and dramatic interpretation.*

| | | | |
|---|---|---|---|
| 0101 | John Holiday | Seats (Total: 10) | |
| | W 11:30am - 1:00pm | PAC 3168 | |

**MUSC608** **Chamber Music Repertory; Chamber Music Repertoire**

(Perm req)

*Prerequisite: graduate standing as a major in performance. A study, through performance, of diversified chamber music for standard media.*

**Contact department for information to register for this course.**

**MUSC609** **Piano Chamber Music Practicum and Analysis**

(Perm req)

*Study of repertoire written for piano in duos or with several instruments, to develop an accompanists advanced performance skills in listening, balance, nuance in dynamics, harmonic motion and phrasing.*

| | | | |
|---|---|---|---|
| 0101 | Rita Sloan | Seats (Total: 10) | |
| | Contact instructor or department for details. | | |

**MUSC611** **Opera Techniques I**

(Perm req)

*Corequisite: MUSC601. Restriction: Permission of director of opera; and must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)).*

*Techniques for opera performance: Improvisation; Acting I, Scene Study I; and Movement I. Practical application of styles and techniques to operatic repertoire.*

| | | | |
|---|---|---|---|
| 0101 | Steven Bailey, Corinne Hayes | Seats (Total: 10) | |
| | TBA | PAC 2170 | |
| | TBA | PAC 1218 | Lab |

**MUSC613** **Opera Techniques III**

(Perm req)

*Prerequisite: Minimum grade of B- in MUSC612; and permission of Director of Opera required. Corequisite: MUSC603 and MUSC605. Restriction: Must be in one of the following programs (Music - Doctoral (Doctoral); Music - Master (Master's)).*

*Continuation of MUSC 612. Techniques for opera performance: Scene Study III; Movement III; and Shakespeare.*

| | | | |
|---|---|---|---|
| 0101 | Corinne Hayes, Steven Bailey | Seats (Total: 10) | |
| | TBA | PAC 2170 | |
| | TBA | PAC 1218 | Lab |

**MUSC629A** **Ensemble; Symphony Orchestra**

(Perm req)

*Rehearsal and performance of selected works for small and large instrumental ensembles.*

Audition required before permission of department will be granted, contact instructor to make arrangements.

| | | | |
|---|---|---|---|
| 0101 | David Neely | Seats (Total: 50) | |
| | TuTh 3:30pm - 6:30pm | PAC 1230 | Lab |

**MUSC629C** **Ensemble; Wind Ensemble**

(Perm req)

*Rehearsal and performance of selected works for small and large instrumental ensembles.*

| | | | |
|---|---|---|---|
| 0101 | Andrea Brown | Seats (Total: 20) | |
| | MWF 11:00am - 12:30pm | PAC 2540 | Lab |

**MUSC629D** **Ensemble; Steel Band Ensemble**

(Perm req)

*Rehearsal and performance of selected works for small and large instrumental ensembles.*

| | | |
|---|---|---|
| 0101 | Josanne Francis | Seats (Total: 18) |
| | Tu 5:30pm - 7:00pm | PAC 2170 |

**MUSC629E** **Ensemble; Advanced Steel Band Ensemble**

(Perm req)

*Rehearsal and performance of selected works for small and large instrumental ensembles.*

| | | |
|---|---|---|
| 0101 | Josanne Francis | Seats (Total: 18) |
| | Tu 7:00pm - 8:30pm | PAC 2170 |

**MUSC629F** **Ensemble; Marching Band**

*Rehearsal and performance of selected works for small and large instrumental ensembles.*

| | | | |
|---|---|---|---|
| 0101 | Andrea Brown | Seats (Total: 175) | |
| | MWF 3:00pm - 5:00pm | PAC 2540 | Lab |

**MUSC629G** **Ensemble; Balinese Gamelan**

*Rehearsal and performance of selected works for small and large instrumental ensembles.*

| | | | |
|---|---|---|---|
| 0101 | I Suadin | Seats (Total: 5) | |
| | Th 7:00pm - 8:30pm | PAC 1230 | Lab |

**MUSC629H** **Ensemble; Harp**

(Perm req)

*Rehearsal and performance of selected works for small and large instrumental ensembles.*

| | | | |
|---|---|---|---|
| 0101 | Instructor: TBA | Seats (Total: 1) | |
| | TuTh 11:00am - 12:15pm | Location: TBA | Lab |

**MUSC629J** **Ensemble; Jazz Ensemble**

(Perm req)

*Rehearsal and performance of selected works for small and large instrumental ensembles.*

Audition required before permission of department will be granted, contact instructor to make arrangements.

| | | | |
|---|---|---|---|
| 0101 | Mark Williams | Seats (Total: 20) | |
| | MW 5:30pm - 7:15pm | PAC 1230 | Lab |
| 0201 | Mark Williams | Seats (Total: 10) | |
| | MW 1:00pm - 2:20pm | PAC 1230 | Lab |
| 0301 | Mark Williams | Seats (Total: 10) | |
| | M 7:30pm - 9:30pm | PAC 1230 | Lab |

**MUSC629K** **Ensemble; Japanese Koto**

*Rehearsal and performance of selected works for small and large instrumental ensembles.*

| | | | |
|---|---|---|---|
| 0101 | Yuriko Gandolfo | Seats (Total: 2) | |
| | Tu 5:30pm - 7:00pm | PAC 3160 | Lab |

**MUSC629L** **Ensemble; Advanced Japanese Koto**

*Rehearsal and performance of selected works for small and large instrumental ensembles.*

| | | | |
|---|---|---|---|
| 0101 | Yuriko Gandolfo | Seats (Total: 4) | |
| | Tu 7:00pm - 8:30pm | PAC 3160 | Lab |

**MUSC629P** **Ensemble; Percussion Ensemble**

*Rehearsal and performance of selected works for small and large instrumental ensembles.*

| | | | |
|---|---|---|---|
| 0101 | Jonathan Bisesi | Seats (Total: 5) | |
| | M 5:00pm - 7:00pm | PAC 2540 | Lab |
| | W 5:00pm - 6:30pm | PAC 2540 | Lab |
| 0201 | Jonathan Bisesi | Seats (Total: 5) | |
| | Contact instructor or department for details. | | |

**MUSC629Q** **Ensemble; Korean Percussion Ensemble**

*Rehearsal and performance of selected works for small and large instrumental ensembles.*

| | | | |
|---|---|---|---|
| 0101 | Sebastian Wang | Seats (Total: 2) | |
| | W 7:00pm - 8:30pm | PAC 2170 | |

**MUSC629R** **Ensemble; Repertoire Orchestra**

(Perm req)

*Rehearsal and performance of selected works for small and large instrumental ensembles.*

Audition required before permission of department will be granted, contact instructor to make arrangements.

| | | | |
|---|---|---|---|
| 0101 | David Neely | Seats (Total: 10) | |
| | MW 3:00pm - 5:00pm | PAC 1230 | Lab |

**MUSC629U** **Ensemble; University Band**

*Rehearsal and performance of selected works for small and large instrumental ensembles.*

Open by audition, contact instructor to make arrangements.

| | | | |
|---|---|---|---|
| 0101 | Craig Potter | Seats (Total: 10) | |
| | W 6:30pm - 8:30pm | PAC 2540 | Lab |

**MUSC629W** **Ensemble; Wind Orchestra**

*Rehearsal and performance of selected works for small and large instrumental ensembles.*

Open by audition, contact instructor to make arrangements.

| | | | |
|---|---|---|---|
| 0101 | Michael Votta<br>TuTh 3:30pm - 6:30pm | Seats (Total: 30)<br>PAC 2540 | <br>Lab |

**MUSC629Z** **Ensemble; Jazz Combo**

(Perm req)

*Rehearsal and performance of selected works for small and large instrumental ensembles.*

Audition required before permission of department will be granted, contact instructor to make arrangements.

| | | | |
|---|---|---|---|
| 0101 | Gerard Kunkel<br>Contact instructor or department for details. | Seats (Total: 10) | |
| 0201 | Thomas Baldwin<br>Tu 5:00pm - 6:30pm | Seats (Total: 10)<br>Location: TBA | <br>Lab |
| 0301 | Mark Williams<br>Contact instructor or department for details. | Seats (Total: 10) | |
| 0401 | Hart Guonjian-Pettit<br>Contact instructor or department for details. | Seats (Total: 10) | |
| 0501 | Mark Williams<br>Contact instructor or department for details. | Seats (Total: 10) | |

**MUSC643** **Seminar in Solo Vocal Literature I**

*Prerequisite: MUSC443; or students who have taken courses with comparable content may contact the department.*

*An intensive study of solo vocal literature from its origin to the present.*

| | | | |
|---|---|---|---|
| 0101 | Mai-Linh Pham, Natalie Conte<br>W 4:00pm - 6:30pm | Seats (Total: 20)<br>PAC 2200 | |

**MUSC646** **Introduction to Musicology**

(Perm req)

*Prerequisite: Graduate student standing in in the School of Music. Credit only granted for: MUSC648 or MUSC646.*

*An introduction to the basics of musicological research, including sources, methodologies, and techniques, as well as the fundamentals of both academic and non-academic writing.*

| | | | |
|---|---|---|---|
| 0101 | William Robin<br>TuTh 11:00am - 12:15pm | Seats (Total: 10)<br>PAC 3110A | |

**MUSC648** **Seminar in Music Research; Seminar in Music Research**

(Perm req)

*An introduction to graduate study in the history and literature of music. Bibliography and methodology of systematic and historical musicology.*

| | | | |
|---|---|---|---|
| 0101 | Lars Helgert<br>Tu 7:00pm - 9:30pm | Seats (Total: 15)<br>PAC 2515C | |
| 0201 | Lars Helgert<br>M 6:00pm - 8:30pm | Seats (Total: 15)<br>PAC 2160 | |
| 0301 | Matthew Valnes<br>TuTh 9:30am - 10:45am | Seats (Total: 15)<br>PAC 2515C | |

**MUSC649A** **Ensemble; University of Maryland Chorale**

(Perm req)

Audition required before permission of department will be granted, contact instructor to make arrangements.

| | | | |
|---|---|---|---|
| 0101 | Jason Ferdinand<br>TuTh 4:30pm - 6:00pm | Seats (Total: 10)<br>PAC 2201 | Lab |

**MUSC649B** **Ensemble; Chamber Singers**

(Perm req)

Audition required before permission of department will be granted, contact instructor to make arrangements.

| | | | |
|---|---|---|---|
| 0101 | Jason Ferdinand<br>MW 3:00pm - 3:50pm<br>TuTh 3:30pm - 4:20pm | Seats (Total: 10)<br>PAC 2201<br>PAC 2201 | <br>Lab<br>Lab |

**MUSC649E** **Ensemble; Ensemble: Gospel Choir**

| | | | |
|---|---|---|---|
| 0101 | Anne Carswell<br>Th 7:00pm - 10:00pm | Seats (Total: 10)<br>PAC 2201 | <br>Lab |

**MUSC649M** **Ensemble; Ensemble: Tactus (Tenor & Bass Choir)**

| | | | |
|---|---|---|---|
| 0101 | Jason Ferdinand<br>MWF 12:00pm - 12:50pm | Seats (Total: 10)<br>PAC 1230 | Lab |

**MUSC649O** **Ensemble; Opera Chorus**

(Perm req)

| | | | |
|---|---|---|---|
| 0101 | Jason Ferdinand<br>F 3:30pm - 5:30pm | Seats (Total: 15)<br>PAC 2170 | Lab |

**MUSC649W** **Ensemble; Treble Choir**

| | | | |
|---|---|---|---|
| 0101 | Kenneth Elpus<br>MWF 12:00pm - 12:50pm | Seats (Total: 10)<br>PAC 2201 | Lab |

**MUSC651** **The Theories of Heinrich Schenker**

(Perm req)

*Prerequisite: MUSC450; or permission of ARHU-School of Music department.*

*The analytical methods of Heinrich Schenker with application of those theories to musical literature from the Baroque, Classical and Romantic periods.*

| | | |
|---|---|---|
| 0101 | Thomas DeLio<br>W 2:00pm - 4:30pm | Seats (Total: 8)<br>PAC 2164 |

**MUSC653** **Jazz Improvisation I**

(Perm req)

*Restriction: Permission of ARHU-School of Music department. Credit only granted for: MUSC653 or MUSC699Z. Formerly: MUSC699Z.*

*Study of improvisational techniques and historical styles of jazz, including study of jazz "language" through transcription and analysis of recorded solos, and the exploration of creative processes and philosophical concepts.*

| | | |
|---|---|---|
| 0101 | Mark Williams<br>M 3:00pm - 5:30pm<br>Contact instructor or department for details. | Seats (Total: 8)<br>PAC 1208 |

**MUSC655** **Theory of Jazz**

(Perm req)

*Restriction: Permission of ARHU-School of Music department. Credit only granted for: MUSC655 ir MUSC699J. Formerly: MUSC699J.*

*Analysis of jazz harmony, with emphasis on principles of substitution, reharmonization, and syntax. Topics may also include chord/scale relationships, phrasing, articulation, notation and orchestration.*

| | | |
|---|---|---|
| 0101 | Leigh Pilzer<br>MW 2:30pm - 3:45pm | Seats (Total: 12)<br>PAC 3168 |

**MUSC659A** **Seminar in Repertoire and Pedagogy**

(Perm req)

*Analysis and preparation of choral master works from all major style periods for the purpose of successful rehearsal and performance by conductors.*

| | | |
|---|---|---|
| 0101 | Jason Ferdinand<br>Contact instructor or department for details. | Seats (Total: 6) |

**MUSC659B** **Seminar in Repertoire and Pedagogy; Orchestral Repertoire and Pedagogy**

(Perm req)

*Analysis and preparation of choral master works from all major style periods for the purpose of successful rehearsal and performance by conductors.*

| | | |
|---|---|---|
| 0101 | David Neely<br>Contact instructor or department for details. | Seats (Total: 6) |

**MUSC659C** **Seminar in Repertoire and Pedagogy; Wind Repertoire and Pedagogy**

(Perm req)

*Analysis and preparation of choral master works from all major style periods for the purpose of successful rehearsal and performance by conductors.*

| | | |
|---|---|---|
| 0101 | Michael Votta<br>Contact instructor or department for details. | Seats (Total: 5) |

**MUSC660** **String Pedagogy**

(Perm req)

*Restriction: Permission of ARHU-School of Music department. Credit only granted for: MUSC400S or MUSC660.*

*A study of major string pedagogical treatises, and an evaluation of string pedagogical techniques, materials, and procedures.*

| | | |
|---|---|---|
| 0101 | Irina Muresanu<br>M 5:00pm - 7:30pm | Seats (Total: 20)<br>PAC 3164 |

**MUSC669C** **Orchestral Excerpts for String Players; Violin**

*In-depth study of the orchestral excerpts required for professional orchestra auditions.*

| | | |
|---|---|---|
| 0101 | David Salness | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**MUSC669D** **Orchestral Excerpts for String Players; Viola**

(Perm req)

*In-depth study of the orchestral excerpts required for professional orchestra auditions.*

| | | |
|---|---|---|
| 0101 | Daniel Foster | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**MUSC669E** **Orchestral Excerpts for String Players; Orchestral Excerpts for String Players: Cello**

(Perm req)

*In-depth study of the orchestral excerpts required for professional orchestra auditions.*

| | | |
|---|---|---|
| 0101 | Loewi Lin | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**MUSC669F** **Orchestral Excerpts for String Players; Bass**

(Perm req)

*In-depth study of the orchestral excerpts required for professional orchestra auditions.*

| | | |
|---|---|---|
| 0101 | Richard Barber | Seats (Total: 15) |
| | W 4:30pm - 5:45pm | Location: TBA |

**MUSC669V** **Orchestral Excerpts for String Players; Harp**

(Perm req)

*In-depth study of the orchestral excerpts required for professional orchestra auditions.*

| | | |
|---|---|---|
| 0101 | Instructor: TBA | Seats (Total: 5) |
| | Contact instructor or department for details. | |

**MUSC675** **Music Theory Pedagogy**

*Analysis of introductory level music theory courses, evaluation of text materials, and teaching approaches for music fundamentals, aural training, and basic undergraduate theory programs.*

| | | |
|---|---|---|
| 0101 | Daniel Zimmerman | Seats (Total: 7) |
| | TuTh 11:00am - 12:15pm | PAC 3168 |

**MUSC679C** **Seminar in Ethnomusicology; Music and the Postcolonial African City**

(Perm req)

*Seminar topics address current issues, including gender, the social economy of music, ethnography of performance, etc.*

| | | |
|---|---|---|
| 0101 | Brendan Kibbee<br>M 3:30pm - 6:00pm | Seats (Total: 12)<br>PAC 3110A |

**MUSC689** **Advanced Conducting**

(Perm req)

*A concentrated study of the conducting techniques involved in the repertoire of all historical periods.*

| | | |
|---|---|---|
| 0101 | Michael Votta<br>M 1:00pm - 3:30pm | Seats (Total: 5)<br>PAC 3164 |
| 0201 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |

**MUSC699** **Selected Topics in Music**

(Perm req)

**Contact department for information to register for this course.**

**MUSC699D** **Selected Topics in Music; Diction for Pianists**

(Perm req)

| | | |
|---|---|---|
| 0101 | Mai-Linh Pham<br>Contact instructor or department for details. | Seats (Total: 5) |

**MUSC699I** **Selected Topics in Music; Music and Dance: An Introduction to Choreomusical Analysis**

(Perm req)

Prerequisite: MUSC450 or MUSC550. Cross-listed with MUSC448I. Credit only granted for MUSC699I or MUSC448I.

| | | |
|---|---|---|
| 0101 | Gretchen Horlacher<br>W 11:00am - 1:30pm | Seats (Total: 10)<br>PAC 3164 |

**MUSC699R** **Selected Topics in Music; Readings in Russian and Soviet Music**

(Perm req)

| | | |
|---|---|---|
| 0101 | Olga Haldey<br>Tu 3:30pm - 6:00pm | Seats (Total: 10)<br>PAC 3110A |

**MUSC699W** **Selected Topics in Music; Instrumental Pedagogy**
**Contact department for information to register for this course.**

**MUSC699X** **Selected Topics in Music; Music and Race**

| | | |
|---|---|---|
| 0101 | Kelsey Klotz | Seats (Total: 12) |
| | W 3:30pm - 6:00pm | PAC 3110A |

**MUSC757** **Aural Skills for Conductors**

(Perm req)

*Restriction: Permission of ARHU-School of Music department.*

*Advanced musicianship skills necessary for conductors.*

| | | |
|---|---|---|
| 0101 | Nathan Lofton | Seats (Total: 5) |
| | Tu 12:30pm - 1:30pm | PAC 2126 |
| | W 1:00pm - 2:15pm | PAC 2126 |

**MUSC758** **Advanced Aural Skills for Conductors**

(Perm req)

*Continuation of MUSC757, advanced aural skills necessary for conductors.*

| | | |
|---|---|---|
| 0101 | Nathan Lofton | Seats (Total: 5) |
| | W 1:00pm - 2:15pm | PAC 2126 |

**MUSC799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**MUSC800S** **Advanced Seminar in Music Pedagogy**

(Perm req)

*Prerequisite: MUSC400; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor.*

*A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument. Required of all candidates for the D.M.A. Degree in performance and literature.*

| | | |
|---|---|---|
| 0101 | Irina Muresanu | Seats (Total: 20) |
| | M 5:00pm - 7:30pm | PAC 3164 |

**MUSC800W** **Advanced Seminar in Music Pedagogy**

(Perm req)

*Prerequisite: MUSC400; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor.*

*A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument. Required of all candidates for the D.M.A. Degree in performance and literature.*

| | | |
|---|---|---|
| 0101 | Sarah Frisof<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0201 | Emily Tsai<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0301 | Robert DiLutis<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0401 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0501 | Tim Powell<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0601 | Gregory Miller<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0701 | Paul Gekker<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0801 | Myles Blakemore<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0901 | Willie Clark<br>Contact instructor or department for details. | Seats (Total: 10) |
| 1001 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 10) |
| 1101 | Jonathan Bisesi<br>Contact instructor or department for details. | Seats (Total: 10) |
| 1201 | Joseph Grimmer<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1301 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |

**MUSC802A** **Advanced Seminar in Music Pedagogy III**

(Perm req)

*Prerequisite: MUSC801.  Restriction: Permission of ARHU-School of Music department.*

*A detailed study of historical and contemporary methods of pedagogy, and analysis of pedagogical problems. Sectioning by instrument.*

| | | | |
|---|---|---|---|
| 0101 | Mai-Linh Pham | Seats (Total: 5) | |
| | Contact instructor or department for details. | | |

**MUSC811** **Doctoral Opera Techniques**

(Perm req)

*Restriction: Permission of ARHU-School of Music department.  Credit only granted for: MUSC611 or MUSC811.*

*Techniques for opera performance: Improvisation; Acting I, Scene Study I; and Movement I. Practical application of styles, techniques to operat e repertoire, and methodology seminar.*

| | | | |
|---|---|---|---|
| 0101 | Corinne Hayes, Steven Bailey | Seats (Total: 5) | |
| | TBA | PAC 2170 | |
| | TBA | PAC 1218 | Lab |

**MUSC813** **Doctoral Opera Techniques III**

(Perm req)

*Prerequisite: MUSC812; and permission of ARHU-School of Music department.  Credit only granted for: MUSC613 and MUSC813.*

*Continuation of MUSC812. Techniques for opera performance: Scene Study III; Movement III; Acting III Shakespeare; Dance I; Stage Combat II; Stage Combat II; and methodology seminar.*

| | | | |
|---|---|---|---|
| 0101 | Corinne Hayes, Steven Bailey | Seats (Total: 5) | |
| | TBA | PAC 2170 | |
| | TBA | PAC 1218 | Lab |

**MUSC830A** **Doctoral Seminar in Music Literature**

*Prerequisite: Must have completed at least twelve hours in music history and literature.*

*An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music; required of all candidates for the D.M.A. Degree in literature-performance.*

| | | |
|---|---|---|
| 0101 | Mai-Linh Pham, Natalie Conte | Seats (Total: 20) |
| | W 4:00pm - 6:30pm | PAC 2200 |

**MUSC830P** **Doctoral Seminar in Music Literature**

*Prerequisite: Must have completed at least twelve hours in music history and literature.*

*An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music; required of all candidates for the D.M.A. Degree in literature-performance.*

| | | |
|---|---|---|
| 0101 | Bradford Gowen<br>F 10:00am - 12:30pm | Seats (Total: 15)<br>PAC 1123 |

**MUSC830V** **Doctoral Seminar in Music Literature**

*Prerequisite: Must have completed at least twelve hours in music history and literature.*

*An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music; required of all candidates for the D.M.A. Degree in literature-performance.*

| | | |
|---|---|---|
| 0101 | Mai-Linh Pham<br>W 4:00pm - 6:30pm | Seats (Total: 20)<br>PAC 2200 |

**MUSC830W** **Doctoral Seminar in Music Literature**

(Perm req)

*Prerequisite: Must have completed at least twelve hours in music history and literature.*

*An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music; required of all candidates for the D.M.A. Degree in literature-performance.*

| | | |
|---|---|---|
| 0101 | Sarah Frisof<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0201 | Emily Tsai<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0301 | Robert DiLutis<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0401 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0501 | Tim Powell<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0601 | Gregory Miller<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0701 | Paul Gekker<br>Contact instructor or department for details. | Seats (Total: 10) |

| | | |
|---|---|---|
| 0801 | Myles Blakemore<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0901 | Aaron Goldman<br>Contact instructor or department for details. | Seats (Total: 10) |
| 1001 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 10) |
| 1101 | Jonathan Bisesi<br>Contact instructor or department for details. | Seats (Total: 10) |
| 1201 | Joseph Grimmer<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1301 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |

**MUSC832A** **Doctoral Seminar in Music Literature**

(Perm req)

*Prerequisite: MUSC831. Restriction: Permission of ARHU-School of Music department.*

*An analytical survey of the literature of music: keyboard music; vocal music; string music; wind instrument music.*

| | | |
|---|---|---|
| 0101 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |

**MUSC898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**MUSC899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# NACS Neuroscience & Cognitive Science Fall 2024

**NACS608** **Neuroscience and Cognitive Science Seminar**

*Special seminar topics in Neuroscience and Cognitive Science.*

| | | |
|---|---|---|
| 0101 | Ricardo Araneda<br>F 10:15am - 11:15am | Seats (Total: 20)<br>BRB 1103 |

**NACS640** **Foundational Readings Seminar**

(Perm req)

*Restriction: Permission of instructor; and must be in Neurosciences and Cognitive Sciences (Doctoral) program. Credit only granted for: NACS640 or NACS728R. Formerly: NACS728R.*

*An introduction to the breadth of research in Neuroscience and Cognitive Science. Faculty will present papers to provide historical context and introduction to important issues in the fields of their research.*

| | | |
|---|---|---|
| 0101 | Rodolphe Gentili | Seats (Total: 12) |
| | Tu 2:00pm - 3:50pm | JMZ 1103 |

**NACS641** **Introduction to Neurosciences**

(Perm req)

*Restriction: Permission of instructor.*

*Detailed examination of neurophysiology and sensorimotor systems.*

| | | |
|---|---|---|
| 0101 | Jens Herberholz | Seats (Total: 20) |
| | MW 2:00pm - 3:45pm | CHE 2145 |

**NACS645** **Cognitive Science**

*Credit only granted for: NACS645 or NACS728Y. Formerly: NACS728Y.*

*A study of mental representations and computations. Issues examined include computation, representations, decisions, modularity, evolution, innateness, and reductionism.*

| | | |
|---|---|---|
| 0101 | Robert Slevc | Seats (Total: 10) |
| | TuTh 10:00am - 11:45am | HJP 2123 |

**NACS728F** **Selected Topics in Neuroscience and Cognitive Science; Introduction to Functional Magnetic Resonance Imaging**

*Graduate seminar on selected topics in contemporary neuroscience and Cognitive science. Extensive readings from the primary literature. Topics vary by semester.*

An introduction to functional magnetic resonance imaging (fMRI). Students will be taught about formulating testable hypotheses with fMRI, utilizing basic methods in fMRI studies, and understanding existing limitations of fMRI studies in the literature.

| | | |
|---|---|---|
| 0101 | Luiz Pessoa | Seats (Total: 5) |
| | TuTh 11:00am - 12:15pm | Location: TBA |

**NACS728J** **Selected Topics in Neuroscience and Cognitive Science; Neurobiology of Chemosensory Systems**

*Graduate seminar on selected topics in contemporary neuroscience and Cognitive science. Extensive readings from the primary literature. Topics vary by semester.*

Cross-listed with BIOL708Q. Credit only granted for BSCI339D, BSCI357, BIOL708Q, or NACS728J. Chemosensation is essential for all forms of life, orchestrating several physiological processes, such as feeding, sexual behaviors, and body homeostasis. This course will review the function of chemosensory systems, including olfaction, gustatory and central chemoreception, among others. Through lectures and discussion of papers, we will examine the cell biology, systems neuroscience, and evolutionary aspects in these chemosensory systems.

| | | |
|---|---|---|
| 0101 | Ricardo Araneda | Seats (Total: 7) |
| | MW 2:00pm - 3:15pm | BPS 1208 |

**NACS728M** **Selected Topics in Neuroscience and Cognitive Science; Grant Writing**

*Graduate seminar on selected topics in contemporary neuroscience and Cognitive science. Extensive readings from the primary literature. Topics vary by semester.*

Instruction in grant-writing skill, introduction to resources, discussions on how to make your grant competitive, and insight into the review process. The goal will be to have each participant submit an NRSA.

| | | |
|---|---|---|
| 0101 | Joo Yun Jun | Seats (Total: 14) |
| | Th 1:00pm - 3:00pm | COL 0211 |

**NACS798** **Master's Non-Thesis Research**

*Individual research course for NACS non-thesis MS degree*

**Contact department for information to register for this course.**

**NACS799** **Master's Thesis Research**

*Individualized research course for NACS thesis MS degree*

**Contact department for information to register for this course.**

**NACS898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**NACS899** **Doctoral Dissertation Research**

(Perm req)

*Indivdual instruction course: contact department or instructor to obtain section number*

**Contact department for information to register for this course.**

# NAVY Navy Fall 2024

**NAVY100** **Introduction to Naval Science**

*Introduction to the naval profession and concepts of sea power. Major topics explored are the mission, strategy, organization, and descriptions of the U.S. Navy and Marine Corps. Students will gain a basic understanding of warfighting capabilities, required leadership skills, training and education, and the duties and responsibilities of a U.S. Navy and Marine Corps Junior Officer. The student will learn Naval courtesy and customs, military justice, and nomenclature as well as the professional competencies required to become a naval officer.*

| | | |
|---|---|---|
| 0101 | GABRIELLA ROSELLE<br>MW 8:00am - 9:15am | Seats (Total: 75)<br>SYM 0200 |
| 2401 | GABRIELLA ROSELLE<br>MW 8:00am - 9:15am | Seats (Total: 35)<br>ARM 0120 |
| FC01 | GABRIELLA ROSELLE<br>MW 8:00am - 9:15am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 10)<br>ARM 0120 |

**NAVY108** **Naval Science Leadership Lab**

*Introduces the student to a variety of instructional sessions and/or activities that will develop the leadership component of the Naval ROTC program. The Naval Science leadership lab may include, but not be limited to, close-order drill, physical fitness training, ceremonial functions, Department of the Navy policy, guest lecturers, general military training (GMT), Anti-Terrorism Force Protection (ATFP), traffic safety, nutrition, stress management, prevention of sexual harassment, and operations security.*

| | | |
|---|---|---|
| 0101 | John Howrey, Jenna Weiner<br>TuTh 7:00am - 7:50am | Seats (Total: 130)<br>ESJ 1224 |
| FC01 | John Howrey, Jenna Weiner<br>TuTh 7:00am - 7:50am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 10)<br>ESJ 1224 |

**NAVY200** **Leadership and Management**

(Perm req)

*Restriction: Permission of UGST-Navy ROTC. Additional information: Priority enrollment will be given to students enrolled in the NROTC program.*

*Introductory course designed to familiarize students with the theories, processes, and behaviors that enable effective leadership and managerial competence. Students will engage in analytical discussions, review leadership development and education, and Navy/Marine Corps-based case study discussions in order to develop their understanding of personal strengths, values and growth opportunities in the context of team, group and organizational leadership.*

| | | |
|---|---|---|
| 0101 | Christopher Boehm | Seats (Total: 40) |
| | TuTh 8:00am - 9:15am | ESJ 1309 |

**NAVY300** **Naval Ship Systems I (Engineering)**

(Perm req)

*Recommended: MATH140 and MATH141. Restriction: Permission of UGST-Navy ROTC. Additional information: Priority enrollment will be given to students enrolled in the NROTC program.*

*Introduces the student to a comprehensive fundamental understanding of United States naval engineering principles and systems. Topics include thermodynamics, incompressible fluid flow, electrical theory, hydraulics and pneumatics, power train components, fluid/lube oil systems, desalination, fundamentals of nuclear power, propulsion systems (internal combustion, gas turbines, and steam), electrical distribution, ship stability and control and damage control. Students will also examine case studies to apply and analyze course topics within naval ships systems contexts.*

| | | |
|---|---|---|
| 0101 | Tighe Bailey | Seats (Total: 25) |
| | MW 8:00am - 9:15am | ESJ B0320 |

**NAVY400** **Naval Operations and Seamanship**

(Perm req)

*Recommended: NAVY201. Restriction: Permission of UGST-Navy ROTC. Additional information: Priority enrollment will be given to students enrolled in the NROTC program.*

*Capstone course for senior NROTC Navy-option midshipmen in advanced navigation, communications, naval operations, and naval warfare. Students learn through simulation in a computer classroom known as the Maritime Skills Simulator (MSS), in addition to lectures, discussions, and qualitative and quantitative tests/examinations. Students will engage in discussions regarding the moral and ethical responsibilities or military leaders, as well as the essential attributes of character required for effective leadership.*

| | | |
|---|---|---|
| 0101 | GABRIELLA ROSELLE | Seats (Total: 30) |
| | TuTh 8:00am - 9:15am | ARM 0120 |

# NEUR Neuroscience Fall 2024

**NEUR200** **Introduction to Neuroscience**

*Prerequisite: Minimum grade of C- in BSCI170 and BSCI171. Cross-listed with: PSYC202. Credit only granted for: PSYC309U, NEUR200, PSYC202 or PSYC301. Formerly: PSYC309U.*

*In an evolutionary sense, the job of the nervous system is to produce, control, and coordinate behaviors that help an animal survive and reproduce. Neuroscience is the study of how the nervous system does that. Provides a broad introduction to neuroscience, always keeping the behavioral consequences in view.*

| | | |
|---|---|---|
| 0101 | Ana Navarro Cebrian<br>TuTh 12:30pm - 1:45pm | Seats (Total: 75)<br>BPS 1243 |
| 0201 | Ana Navarro Cebrian<br>TuTh 2:00pm - 3:15pm | Seats (Total: 75)<br>BPS 1243 |
| 0301 | Evan Hart<br>MWF 9:00am - 9:50am | Seats (Total: 75)<br>BPS 1243 |

**NEUR305** **Neural Systems and Circuits**

*Prerequisite: Minimum grade of C- in MATH120 or higher MATH course; and a minimum grade of C- in NEUR200 or BSCI353; or equivalent.*

*Overview of the fundamental principles underlying the systems and circuits of the human nervous system, with a focus on cognitive processes and how these systems interact. Students will engage in the analysis of case studies, apply their knowledge of the neural circuitry to explain everyday phenomena, hypothesize ways to further investigate the nervous system, and propose how knowledge of neural circuits can be used in human society and the resulting implications.*

| | | |
|---|---|---|
| 0101 | Amanda Chicoli<br>MWF 1:00pm - 1:50pm | Seats (Total: 75)<br>ESJ 0215 |

**NEUR306** **Cellular and Molecular Neuroscience**

*Prerequisite: 1 course with a minimum grade of C- from NEUR200, BSCI207 or BSCI330. Corequisite: Must have completed or be concurrently enrolled in PHYS132 or equivalent course. Cross-listed with: BSCI353. Credit only granted for: NEUR306 or BSCI353.*

*Students will gain an appreciation of neuroscience as the nexus of chemistry, physics, and biology. Additionally, they will gain an understanding of how: both individual and networks of neurons function as variable electrical circuits; our nervous systems transduce signals from the outside world and sets-off molecular cascades; the behavior of a neuron can be changed and or remain the same in response to changing variables. Techniques used to study the nervous system at a cellular and molecular level will be discussed.*

| | | |
|---|---|---|
| 0101 | Chan Lin<br>MWF 9:00am - 9:50am | Seats (Total: 37)<br>BPS 1250 |
| 0102 | Daniel Butts<br>TuTh 12:30pm - 1:45pm | Seats (Total: 37)<br>ESJ 2204 |

**NEUR329** **Instructional Assistance Practicum**

(Perm req)

*Students serve as instructional assistants in selected undergraduate neuroscience courses. Roles and responsibilities and pre/co-requisites are determined on a course- specific basis and approved by the Program Curriculum Committee.*

Repeatable to 9 credits. Additional information: Course not acceptable toward major requirements in the Neuroscience. Students serve as instructional assistants in selected undergraduate neuroscience courses. Roles and responsibilities and pre/co-requisites are determined on a course- specific basis and approved by the Program Curriculum Committee.

**Contact department for information to register for this course.**

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**NEUR379** **Special Topics: Research in Neuroscience**

(Perm req)

*Research and/or integrated reading in a topic related to neuroscience, under the direction and close supervision of a member of the University of Maryland faculty.*

Recommended: At least a 3.0 neuroscience track GPA and no records of academic misconduct. Restriction: Permission of Neuroscience Program. Repeatable to 12 credits. Research and/or integrated reading in a topic related to neuroscience, under the direction and close supervision of a member of the University of Maryland faculty.

**Contact department for information to register for this course.**

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**NEUR379H** **Special Topics: Research in Neuroscience**

(Perm req)

*Research and/or integrated reading in a topic related to neuroscience, under the direction and close supervision of a member of the University of Maryland faculty.*

**Contact department for information to register for this course.**

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**NEUR398H** **Neuroscience Honors Seminar**

(Perm req)

*This seminar provides an opportunity for the honors students to share their research projects and sharpen their communication skills through presentations, discussions, and peer-review thesis writing. Guest speakers will be invited to provide additional information and insights into various topics in professional development practice, graduate school info and application, etc.*

Prerequisite: NEUR200. Corequisite: NEUR379, NEUR479, or equivalent research credit with instructor permission.Restriction: Permission of department. Repeatable to 4 credits. This seminar provides an opportunity for the honors students to share their research projects and sharpen their communication skills through presentations, discussions, and peer-review thesis writing. Guest speakers will be invited to provide additional information and insights into various topics in professional development practice, graduate school info and application, etc.

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|---|---|---|
| 0101 | Nikolas Francis | Seats (Total: 15) |
| | Tu 3:30pm - 4:20pm | BPS 1208 |

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**NEUR405** **Neuroscience Laboratory**

*Prerequisite: NEUR306 or BSCI353; and PHYS132. Recommended: NEUR305. Cross-listed with: BSCI455. Credit only granted for: PSYC401, NEUR405, BSCI455 or BSCI454.*

*Students will utilize neurophysiological techniques to examine fundamental principles of neurons and neural circuits. This course will reinforce content from prerequisite NEUR courses. Students will also strengthen skills in experimental design and scientific writing.*

Students must pay a $40 laboratory materials fee.

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|---|---|---|---|
| 0101 | Hilary Bierman, Dawei Han<br>M 11:00am - 12:50pm<br>Th 2:00pm - 6:00pm | Seats (Total: 20)<br>ESJ 2212<br>BPS 0257 | <br><br>Lab |
| 0102 | Hilary Bierman, Dawei Han<br>M 11:00am - 12:50pm<br>Tu 2:00pm - 6:00pm | Seats (Total: 20)<br>ESJ 2212<br>BPS 0257 | <br><br>Lab |
| 0103 | Hilary Bierman, Dawei Han<br>M 11:00am - 12:50pm<br>W 1:00pm - 5:00pm | Seats (Total: 20)<br>ESJ 2212<br>BPS 0257 | <br><br>Lab |

**NEUR479** **Advanced Research in Neuroscience**

(Perm req)

*Research and/or integrated reading in neuroscience under the direction and close supervision of a faculty member.*

Prerequisite: Complete at least 3 credits of NEUR379 (or equivalent) with the same faculty member as NEUR479 credit. Recommended: Minimum neuroscience track GPA of 3.0. Restriction: Permission of the Neuroscience Program. Repeatable to 12 credits. Research and/or integrated reading in neuroscience under the direction and close supervision of a faculty member.

**Contact department for information to register for this course.**

**NEUR479H** **Advanced Research in Neuroscience**

(Perm req)

*Research and/or integrated reading in neuroscience under the direction and close supervision of a faculty member.*

**Contact department for information to register for this course.**

# NFSC Nutrition and Food Science Fall 2024

*The following courses may involve the use of animals. Students who are concerned about the use of animals in teaching have the responsibility to contact the instructor, prior to course enrollment, to determine whether animals are to be used in the course, whether class exercises involving animals are optional or required and what alternatives, if any, are available.*

**NFSC100** **Elements of Nutrition**

*Credit only granted for: KNES264, KNES289F or NFSC100.*

*Fundamentals of human nutrition. Nutrient requirements related to changing individual and family needs.*

| | | | |
|---|---|---|---|
| 0101 | Margaret Slavin<br>MW 11:00am - 11:50am<br>Th 8:30am - 9:20am | Seats (Total: 25)<br>BRB 1101<br>JMZ 1124 | Discussion |
| 0102 | Margaret Slavin<br>MW 11:00am - 11:50am<br>Th 8:30am - 9:20am | Seats (Total: 25)<br>BRB 1101<br>JMZ 0205 | Discussion |
| 0103 | Margaret Slavin<br>MW 11:00am - 11:50am<br>W 1:00pm - 1:50pm | Seats (Total: 25)<br>BRB 1101<br>TLF 0103 | Discussion |
| 0104 | Margaret Slavin<br>MW 11:00am - 11:50am<br>Th 12:30pm - 1:20pm | Seats (Total: 25)<br>BRB 1101<br>WDS 1102 | Discussion |
| 0105 | Margaret Slavin<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 25)<br>BRB 1101<br>TYD 2102 | Discussion |
| 0106 | Margaret Slavin<br>MW 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 25)<br>BRB 1101<br>TWS 0207 | Discussion |
| 0107 | Margaret Slavin<br>MW 11:00am - 11:50am<br>W 10:00am - 10:50am | Seats (Total: 25)<br>BRB 1101<br>KEY 0120 | Discussion |
| 0108 | Margaret Slavin<br>MW 11:00am - 11:50am<br>W 2:00pm - 2:50pm | Seats (Total: 25)<br>BRB 1101<br>MTH 0103 | Discussion |
| 0109 | Margaret Slavin<br>MW 11:00am - 11:50am<br>Tu 2:00pm - 2:50pm | Seats (Total: 25)<br>BRB 1101<br>SYM 0215 | Discussion |

| | | | |
|---|---|---|---|
| 0112 | Margaret Slavin<br>MW 11:00am - 11:50am<br>W 3:00pm - 3:50pm | Seats (Total: 25)<br>BRB 1101<br>Location: TBA | Discussion |
| 0113 | Margaret Slavin<br>MW 11:00am - 11:50am<br>W 12:00pm - 12:50pm | Seats (Total: 25)<br>BRB 1101<br>TLF 0103 | Discussion |
| 0114 | Margaret Slavin<br>MW 11:00am - 11:50am<br>Th 11:00am - 11:50am | Seats (Total: 25)<br>BRB 1101<br>PHY 2106 | Discussion |
| 0115 | Margaret Slavin<br>MW 11:00am - 11:50am<br>F 12:00pm - 12:50pm | Seats (Total: 25)<br>BRB 1101<br>JMZ 3203 | Discussion |
| FC01 | Margaret Slavin<br>MW 4:30pm - 5:20pm<br>F 11:30am - 12:20pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>ESJ 2309<br>SQH 1103 | Discussion |
| FC02 | Margaret Slavin<br>MW 4:30pm - 5:20pm<br>F 1:00pm - 1:50pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 24)<br>ESJ 2309<br>WDS 1114 | Discussion |

**NFSC100H** **Elements of Nutrition**

*Credit only granted for: KNES264, KNES289F or NFSC100.*

*Fundamentals of human nutrition. Nutrient requirements related to changing individual and family needs.*

For general honors students only.

| | | | |
|---|---|---|---|
| 0101 | Margaret Slavin<br>MW 11:00am - 11:50am<br>W 1:00pm - 1:50pm<br>*01/11/2023 (2308) Suzanne May need to share room for both NFSC100 0103 and NFSC100H 0101 discussions if enrollment is lower than expected for the H-version.* | Seats (Total: 12)<br>BRB 1101<br>KEY 0117 | Discussion |

**NFSC112** **Food: Science and Technology**

*Introduction to the realm of food science, food technology and food processing. An overview of the largest industry in the U.S. with emphasis on the science of food and the technology of food preservation from harvest through processing and packaging to distribution and consumer utilization.*

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|---|---|---|---|
| 0101 | Qin Wang, Abani Pradhan<br>MW 10:00am - 10:50am<br>Th 12:30pm - 1:20pm | Seats (Total: 30)<br>MMH 1400<br>TLF 1103 | Discussion |
| 0102 | Qin Wang, Abani Pradhan<br>MW 10:00am - 10:50am<br>Th 4:00pm - 4:50pm | Seats (Total: 30)<br>MMH 1400<br>TYD 1114 | Discussion |
| 0103 | Abani Pradhan, Qin Wang<br>MW 10:00am - 10:50am<br>F 12:00pm - 12:50pm | Seats (Total: 30)<br>MMH 1400<br>JMZ 3205 | Discussion |
| 0104 | Abani Pradhan, Qin Wang<br>MW 10:00am - 10:50am<br>F 3:00pm - 3:50pm | Seats (Total: 30)<br>MMH 1400<br>KEY 0121 | Discussion |
| 0105 | Abani Pradhan, Qin Wang<br>MW 10:00am - 10:50am<br>W 2:00pm - 2:50pm | Seats (Total: 30)<br>MMH 1400<br>PHY 1219 | Discussion |
| 0106 | Abani Pradhan, Qin Wang<br>MW 10:00am - 10:50am<br>W 3:00pm - 3:50pm | Seats (Total: 30)<br>MMH 1400<br>KEY 0125 | Discussion |
| FC01 | Qin Wang, Abani Pradhan<br>MW 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 30)<br>SYM 0215 | |

**NFSC220** **Diet: Is it a cause or a solution**

*If diet is such a straightforward topic, then why and how does this simple matter result in complicated health problems? This course delves deeply into a Big Question at the intersection of diet and health. Diet is a topic that most people know but few people understand. In addition, diet has become one of the most important lenses for looking at a variety of social, economic, and cultural issues. Since the concept of diet is a continuum and has multifaceted aspects, we need to understand it from broad and multidisciplinary perspectives including social, cultural, and economic aspects.*

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|---|---|---|---|
| 0101 | Amy Schachtner-Appel<br>MWF 12:00pm - 12:50pm | Seats (Total: 60)<br>SYM 0200 | |

**NFSC298** **Sports Nutrition Internship Practicum**

*This internship allows students to gain hands on experience working in collegiate athletics. Students interact with an interdisciplinary team including registered dietitians, coaches, trainers, physicians and others to develop and enhance nutrition-related knowledge and skills. They also gain invaluable experience and exposure to the day-to-day duties of a collegiate sports dietitian. Students participate in a weekly 50-minute discussion that is held by two sports nutrition dietitians, and complete 9 hours per week hands on activities at Gossett Football Team House, Xfinity Center, and Varsity Team House.*

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|---|---|---|---|
| 0101 | Paula Karamihas, Colleen Carrion<br>W 12:00pm - 12:50pm | Seats (Total: 16)<br>Location: TBA | |

**NFSC341** **Fermented Food, Feed, and Pharmaceuticals**

*Jointly offered with: NFSC641. Credit only granted for: NFSC341 or NFSC641.*

*Fermentation is a biochemical process that improves and preserves the organoleptic and nutritional values of various food and feed products. In addition, fermentation is a biotechnology tool which cultivates microorganisms or other raw materials into important pharmaceuticals and other industrial products. The objective of this course is to learn how fermented foods and feeds are produced and study the microbial starter cultures used in creating these probiotic-rich and functional foods. Fermentation techniques in animal feed production will be discussed in this course and the influence of these techniques on the nutritional requirements and digestive physiology of animals as well as the nutritive value of the feedstuffs will be studied. The process of production of pharmaceuticals such as antibiotics, enzymes and insulin and their applications will also be studied.*

| | | | |
|---|---|---|---|
| 0101 | Behrouz Meyssami<br>TuTh 11:00am - 12:15pm | Seats (Total: 15)<br>SKN 0101 | |

**NFSC350** **Foodservice Operations**

(Perm req)

*Prerequisite: Minimum grade of C- in BSCI223 and BMGT364. Restriction: Must be in Nutrition and Food Science: Dietetics program.*

*Introduction to management. Responsibilities in quantity food production and purchasing in a foodservice operation. Laboratory experience in planning, preparation, and service of meals which meet the nutritional needs of the consumer.*

| | | | |
|---|---|---|---|
| 0101 | Margaret Udahogora<br>TuTh 4:00pm - 5:15pm<br>Tu 8:00am - 1:30pm | Seats (Total: 9)<br>MMH 3112<br>MMH 3401 | <br><br>Lab |
| 0102 | Margaret Udahogora<br>TuTh 4:00pm - 5:15pm<br>Th 8:00am - 1:30pm | Seats (Total: 9)<br>MMH 3112<br>MMH 3401 | <br><br>Lab |

| | | | |
|---|---|---|---|
| 0103 | Margaret Udahogora<br>TuTh 4:00pm - 5:15pm<br>Tu 8:00am - 1:30pm | Seats (Total: 9)<br>MMH 3112<br>MMH 3401 | <br><br>Lab |
| 0104 | Margaret Udahogora<br>TuTh 4:00pm - 5:15pm<br>Th 8:00am - 1:30pm | Seats (Total: 9)<br>MMH 3112<br>MMH 3401 | <br><br>Lab |

**NFSC380** **Methods of Nutritional Assessment**

(Perm req)

*Prerequisite: Minimum of C- in NFSC315 and BCHM461. Restriction: Must be in Nutrition and Food Science: Food Science program.*

*Methods of assessing human nutritional status of populations and individuals. These methods include dietary, anthropometric, clinical evaluations and biochemical measurements.*

| | | | |
|---|---|---|---|
| 0101 | Margaret Udahogora<br>MW 1:00pm - 1:50pm<br>M 2:00pm - 5:00pm | Seats (Total: 15)<br>TYD 0102<br>SKN 0101 | <br><br>Lab |
| 0102 | Margaret Udahogora<br>MW 1:00pm - 1:50pm<br>W 2:00pm - 5:00pm | Seats (Total: 15)<br>TYD 0102<br>SKN 0101 | <br><br>Lab |

**NFSC386** **Experiential Learning**

(Perm req)

*Prerequisite: Permission of AGNR-Nutrition and Food Science department. Restriction: Junior standing or higher. Formerly: FDSC386 and NUTR386.*

**Contact department for information to register for this course.**

**NFSC388** **Honors Thesis Research**

*Undergraduate honors thesis research conducted under the direction of an AGNR faculty member in partial fulfillment of the requirements of the College of AGNR Honors Program. The thesis will be defended to a faculty committee.*

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|---|---|---|
| 1301 | Qin Wang<br>Contact instructor or department for details. | Seats (Total: 10) |

**NFSC399** **Special Problems in Food Science**

(Perm req)

*Designed for advanced undergraduates. Specific problems in food science will be assigned.*

**Contact department for information to register for this course.**

**NFSC416** **Food Safety System**

*Restriction: Permission of AGNR-Nutrition and Food Science department. Repeatable to 0 credit. Credit only granted for: NFSC498T, NFSC416, NFSC679T, or NFSC616. Formerly: NFSC498T.*

*Focuses on identifying and reducing biological, chemical and physical risks in food manufacturing and thereby reduce outbreak incidences and improve public health. The course is based on the US FDA recognized curriculum on 'Hazard Analysis and Risk Based Preventive Controls' (HARPC) regulations for manufacturing human foods. A successful completion of this course will result in students becoming 'preventive controls qualified individuals' as defined by the US FDA.*

| | | |
|---|---|---|
| 0101 | Rohan Tikekar | Seats (Total: 10) |
| | Th 3:00pm - 5:30pm | SQH 1101 |

**NFSC421** **Food Chemistry**

*Prerequisite: BCHM461.*

*Basic chemical and physical concepts are applied to the composition and properties of foods. Emphasis on the relationship of processing technology to the keeping quality, nutritional value, and acceptability of foods.*

| | | |
|---|---|---|
| 0101 | Liangli Yu | Seats (Total: 30) |
| | MW 12:30pm - 1:45pm | JMZ 0122 |

**NFSC422** **Food Product Research and Development**

(Perm req)

*Restriction: Senior standing; and must be in a major within AGNR-Nutrition and Food Science department; and permission of AGNR-Nutrition and Food Science department. Formerly: FDSC422.*

*A capstone course for FDSC majors. A study of the research and development of new food products. Application of food technology, engineering, safety and packaging are integrated by teams of students to develop a new food product from concept to pilot plant scale-up. Students will travel to nearby food processing plants on two to four Saturdays during the semester.*

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|---|---|---|---|
| 0101 | Qin Wang | Seats (Total: 15) | |
| | W 2:00pm - 2:50pm | WDS 1127 | |
| | F 1:00pm - 5:00pm | MMH 3401 | Lab |

**NFSC423** **Food Chemistry Laboratory**

*Prerequisite: Must have completed or be concurrently enrolled in NFSC421.*

*Analysis of the major and minor constituents of food using chemical, physical and instrumental methods in concordance with current food industry and regulatory practices. Laboratory exercises coincide with lecture subjects in NFSC421.*

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|---|---|---|---|
| 0101 | Diana Obanda | Seats (Total: 15) | |
| | W 8:30am - 9:20am | ANS 0536 | |
| | W 9:30am - 12:20pm | ANS 0536 | Lab |

**NFSC426** **Current Topics in Nutrition and Chronic Disease**

*Jointly offered with: NFSC621. Credit only granted for: NFSC498F, NFSC426, NFSC678F, or NFSC621. Formerly: NFSC498F.*

*Analysis of current topics related to diet, nutrition, and human health at cellular, molecular and biochemical level. Further, this course will provide overview of the current methods, and in vitro and in vivo model systems used in nutrition research. Syllabus includes topics relevant to dietary regulation of genes/proteins and their impact on both physiological and pathological conditions including hyperlipidemia, hyperglycemia, fibrosis, food allergy, nutraceuticals, inflammatory diseases (IBD), cardiovascular diseases (atherosclerosis and stenosis), and oncogenesis. This course is designed to help students to understand and apply current scientific concepts and research methods, and to obtain necessary skills in evaluation and interpretation of evidence based scientific data.*

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|---|---|---|---|
| 0101 | Shaik Rahaman | Seats (Total: 20) | |
| | M 2:15pm - 5:00pm | JMP 1109 | |

**NFSC440** **Advanced Human Nutrition**

(Perm req)

*Prerequisite: Minimum of C- in NFSC100, BCHM462 and BSCI440.*

*A critical study of physiologic, molecular and metabolic influences on utilization of carbohydrates, lipids, proteins, vitamins, macro-and micro- minerals, and nonnutritive components of food. Interactions of these nutrients and food components will be examined relative to maintaining health.*

Jointly offered with NFSC678R.

| | | | |
|---|---|---|---|
| 0101 | David Lei | Seats (Total: 49) | |
| | TuTh 2:00pm - 3:40pm | ARC 1105 | |

**NFSC455** **Medical Nutrition Therapy I**

*Prerequisite: NFSC380. Corequisite: NFSC440.*

*Advanced clinical nutrition course for dietetics or nutrition science majors. Modifications of the normal adequate diet to meet human nutritional needs in acute and chronic diseases and metabolic disorders. Includes energy balance and weight management, nutritional genomics, nutrition counseling, autoimmune disease, nutrition for pediatric conditions.*

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|---|---|---|---|
| 0101 | Anyea Lovette | Seats (Total: 30) | |
| | MWF 10:00am - 10:50am | KEY 0100 | |
| | W 2:00pm - 3:50pm | VMH 1203 | Lab |

**NFSC490** **Special Problems in Nutrition**

(Perm req)

*Prerequisite: NFSC440; and permission of AGNR-Nutrition and Food Science department.*

*Individually selected problems in the area of human nutrition.*

**Contact department for information to register for this course.**

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**NFSC498** **Selected Topics**

(Perm req)

*Selected current aspects of food.*

**Contact department for information to register for this course.**

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**NFSC498A** **Selected Topics; Individual Study**

(Perm req)

*Selected current aspects of food.*

**Contact department for information to register for this course.**

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**NFSC498K** **Selected Topics; Gut Microbiota Health and Metabolic Disease**

*Selected current aspects of food.*

Analysis of topics related to gut microbiota health, diet and nutrition. An introduction to the gut microbiota and its acquisition; How the microbiome is studied; Techniques for analyzing microbiome data; Gut microbiome changes in obesity and associated comorbidities: liver disease, insulin resistance and diabetes; Links between the microbiota, intestinal immune system and adipose tissue immune system; Effects of diet on the gut microbiota; Potential of the gut microbiome in treating obesity and related diseases.

| | | |
|---|---|---|
| 0101 | Diana Obanda<br>W 3:00pm - 5:45pm | Seats (Total: 15)<br>MMH 3112 |

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**NFSC620** **Diet and Cancer Prevention**

*Prerequisite: NFSC440; or permission of instructor. Credit only granted for: NFSC620 or NFSC679D. Formerly: NFSC678D.*

*1. The nature of cancer and the relationship between dietary/nutritional factors and incidence of cancer 2. Basic concepts of general cancer biology with focus on effects of dietary components on genes and their encoded proteins, epigenetic changes and cell signaling 3. Effect of dietary factors in various types of cancer with respect to the benefit of intervention strategies for chemoprevention 4. Scientific knowledge, critical thinking, and the practical application of diet in cancer prevention.*

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|---|---|---|
| 0101 | Seong-Ho Lee<br>Tu 4:00pm - 6:45pm | Seats (Total: 15)<br>WDS 1127 |

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**NFSC621** **Advanced Current Topics in Nutrition and Chronic Disease**

*Jointly offered with: NFSC426. Credit only granted for: NFSC498F, NFSC426, NFSC678F, or NFSC621. Formerly: NFSC678M.*

*Analysis of current topics related to diet, nutrition, and human health at cellular, molecular and biochemical level. Further, this course will provide overview of the current methods, and in vitro and in vivo model systems used in nutrition research. Syllabus includes topics relevant to dietary regulation of genes/proteins and their impact on both physiological and pathological conditions including hyperlipidemia, hyperglycemia, fibrosis, food allergy, nutraceuticals, inflammatory diseases (IBD), cardiovascular diseases (atherosclerosis and stenosis), and oncogenesis. This course is designed to help students to understand and apply current scientific concepts and research methods, and to obtain necessary skills in evaluation and interpretation of evidence based scientific data.*

| | | |
|---|---|---|
| 0101 | Shaik Rahaman | Seats (Total: 20) |
| | M 2:15pm - 5:00pm | JMP 1109 |

**NFSC624** **Advanced Research Design and Methods in Nutrition Education**

*Prerequisite: One statistics course; or permission by the instructor. Credit only granted for: NFSC678V, NFSC498V, or NFSC624. Formerly: NFSC678V.*

*Health promotion and nutrition education are parts of behavioral and social science that can be used to promote health and prevent diet-related diseases. Their purpose is to positively influence the health-related behaviors of individuals, communities, surrounding environments, and policies. The major goals of this course are to help students understand fundamental behavioral and social models and theories used in the field of community nutrition and to address methodological issues in developing, implementing, and evaluating nutrition education programs.*

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|---|---|---|
| 0101 | Hee-Jung Song | Seats (Total: 15) |
| | F 2:00pm - 4:45pm | ONLINE |

**NFSC641** **Fermented Food, Feed, and Pharmaceuticals**

*Fermentation is a biochemical process that improves and preserves the organoleptic and nutritional values of various food and feed products. In addition, fermentation is a biotechnology tool which cultivates microorganisms or other raw materials into important pharmaceuticals and other industrial products. The objective of this course is to learn how fermented foods and feeds are produced and study the microbial starter cultures used in creating these probiotic-rich and functional foods. Popular fermented food products such as wine, beer, yogurt, kefir, kimchi, kombucha, tempeh, miso, furu, and sauerkraut, along with their process specifics including their microbiology, methods of analysis, product composition and some of their potential benefits will be discussed. Fermentation techniques in animal feed production will be discussed in this course and the influence of these techniques on the nutritional requirements and digestive physiology of animals as well as the nutritive value of the feedstuffs will be studied. The process of production of pharmaceuticals such as antibiotics, enzymes and insulin and their applications will also be studied.*

| | | |
|---|---|---|
| 0101 | Behrouz Meyssami | Seats (Total: 15) |
| | TuTh 11:00am - 12:15pm | SKN 0101 |

**NFSC678A** **Selected Topics in Nutrition**

*Individual or group study in an area of nutrition.*

**Contact department for information to register for this course.**

**NFSC678K** **Selected Topics in Nutrition; Gut Microbiota Health and Metabolic Disease**

*Individual or group study in an area of nutrition.*

Analysis of topics related to gut microbiota health, diet and nutrition. An introduction to the gut microbiota and its acquisition; How the microbiome is studied; Techniques for analyzing microbiome data; Gut microbiome changes in obesity and associated comorbidities: liver disease, insulin resistance and diabetes; Links between the microbiota, intestinal immune system and adipose tissue immune system; Effects of diet on the gut microbiota; Potential of the gut microbiome in treating obesity and related diseases.

| | | |
|---|---|---|
| 0101 | Diana Obanda<br>W 3:00pm - 5:45pm | Seats (Total: 15)<br>MMH 3112 |

**NFSC678P** **Selected Topics in Nutrition; Precision Nutrition and Human Health**

*Individual or group study in an area of nutrition.*

| | | |
|---|---|---|
| 0101 | Yuanyuan Li<br>Th 4:00pm - 6:45pm | Seats (Total: 10)<br>SKN 0101 |

**NFSC678R** **Selected Topics in Nutrition; Advanced Human Nutrition**

(Perm req)

*Individual or group study in an area of nutrition.*

Jointly offered with NFSC440. Prerequisites: NFSC100, BCHM462, BSCI440, and permission of department.

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|---|---|---|
| 0101 | David Lei<br>TuTh 2:00pm - 3:40pm | Seats (Total: 49)<br>ARC 1105 |

**NFSC679G** **Selected Topics in Food Science; R for Applied Genomics**

*Individual or group study in an area of food science.*

Prerequisites: At least one semester of biostatistics, such as BIOM601, and background understanding of principles in molecular biology, or permission granted from the instructor. Advanced data science applications in food science and human nutrition. Introduction to R for genome and microbiome analysis.

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|---|---|---|
| 0101 | Ryan Blaustein<br>TuTh 9:30am - 10:45am | Seats (Total: 15)<br>SKN 0101 |

**NFSC679J** **Selected Topics in Food Science; Nutraceuticals and Functional Foods**

*Individual or group study in an area of food science.*

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|---|---|---|---|
| 0101 | Liangli Yu | Seats (Total: 10) | |
| | Th 12:30pm - 3:15pm | WDS 1127 | |

**NFSC679R** **Selected Topics in Food Science; Food Safety and Nutrition Risk Assessment**

*Individual or group study in an area of food science.*

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|---|---|---|---|
| 0101 | Abani Pradhan | Seats (Total: 15) | |
| | M 1:00pm - 2:40pm | MMH 3112 | |
| | F 11:00am - 1:30pm | MMH 3112 | Lab |

**NFSC679T** **Selected Topics in Food Science; Advanced Food Processing and Safety**

*Individual or group study in an area of food science.*

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|---|---|---|---|
| 0101 | Rohan Tikekar | Seats (Total: 10) | |
| | Th 3:00pm - 5:30pm | SQH 1101 | |

**NFSC688** **Seminar in Nutrition and Food Science**

*This is a seminar course presentedy by NFSC graduate students and invited speakers in the field of nutrition and food science.*

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|---|---|---|---|
| 0101 | David Lei | Seats (Total: 25) | |
| | W 12:00pm - 12:50pm | JMZ 3203 | |

**NFSC690** **Nutrition and Aging**

*Prerequisite: NFSC440 or BSCI440; or students who have taken courses with comparable content may contact the department.*

*Examine the physiological, social and psychological changes that may occur with aging and their impact on nutritional status and on successful aging.*

| | | | |
|---|---|---|---|
| 0101 | Nadine Sahyoun | Seats (Total: 15) | |
| | F 10:00am - 12:45pm | SKN 0101 | |

**NFSC699** **Problems in Nutrition and Food Science**

(Perm req)

*Credit according to time scheduled and magnitude of problem. An experimental program on a topic other than the student's thesis problem will be conducted. Four credits shall be the maximum allowed toward an advanced degree.*

**Contact department for information to register for this course.**

**NFSC799** **Master's Thesis Research**

*First and second semesters. Credit in proportion to work done and results accomplished. Investigation in some phases of foodservice administration which may form the basis of a thesis. results in the form of a thesis.*

**Contact department for information to register for this course.**

**NFSC898** **Pre-Candidacy Research**

*First and second semesters. Oral reports on special topics or recently published research in nutrition. Distinguished scientists are invited as guest lecturers. A maximum of three credits allowed for the M.S.*

**Contact department for information to register for this course.**

**NFSC899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# NIAS National Institute of Aeronautics - North Carolina Fall 2024

**NIAS788T** **Advanced Topics; Heat Transfer Theory and Applications**
**Contact department for information to register for this course.**

**NIAS788W** **Advanced Topics; Wing Theory**

(Perm req)

| | | |
|---|---|---|
| TV01 | Instructor: TBA | Seats (Total: 1) |
| | Contact instructor or department for details. | |

# PEER Health Center Fall 2024

**PEER312** **Peer Education: Preventing Power-Based Violence**

(Perm req)

*Prerequisite: Students must complete an interview before enrolling in this course. Restriction: Permission of instructor; and minimum cumulative GPA of 2.5. Credit only granted for: HLTH382 or PEER312. Formerly: HLTH382. Additional information: Students are required to attend a 40-hour training the week before classes begin which will equip them with the information and tools necessary to provide outreach as early as the first week of the Fall classes. Some evening and weekend hours may be required.*

*Designed to train students to become Peer Educators who are responsible for presenting to members of the campus community about the complex dynamics surrounding issues of power-based personal violence. This includes: sexual assault, relationship violence, stalking, bystander intervention, consent, and rape culture. Students fully learn the on and off-campus resources for victim/survivors. Programming is done in classroom settings, residence halls, Greek life spaces, and at tables during special events.*

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|---|---|---|
| 0101 | Lucy Hebner<br>MW 4:00pm - 5:15pm<br>Contact instructor or department for details. | Seats (Total: 15)<br>JMZ 1124 |

**PEER318** **CARE Peer Advocacy**

(Perm req)

*Designed to train students to become Peer Advocates who are responsible for providing crisis and short-term support services for victims of sexual assault, relationship violence, stalking, sexual harassment and child abuse.Students will be meeting with clients and providing emotional support and resources (both on and off campus). During weekly classes, students will be trained in trauma-informed crisis intervention procedures that will not only help them assist clients during in- person sessions but will help them support clients via the crisis cell. Students will be expected to maintain the crisis cell (on a shared basis)throughout the semester as well as maintain 10 hours per week in the CARE office. In addition to maintaining the crisis cell and office hours, during the spring semester students will be tasked with working as a team in planning and executing a Take Back the Night event.*

| | | |
|---|---|---|
| 0101 | Christina Jay<br>W 4:30pm - 6:00pm<br>Contact instructor or department for details. | Seats (Total: 15)<br>JMZ 0120 |

**PEER319** **CARE to Stop Violence Outreach Peer Program**

(Perm req)

*A two semester, 6-credit course designed to train students in the knowledge, values and skills to build professional relationships and become leaders in community development related to the social justice issue of sexual misconduct with emphasis on the college campus environment.*

| | | |
|---|---|---|
| 0101 | Grace Boudreau<br>MW 4:00pm - 5:00pm<br>Contact instructor or department for details.<br>*Contact department or instructor for details.* | Seats (Total: 15)<br>JMZ 3203 |

# PERS Persian Fall 2024

**PERS101** **Elementary Persian I**

*Prerequisite: Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be native/fluent speaker of Persian.*

*Introduction to the alphabet, pronunciation patterns, greetings, basic structures, and other fundamentals, with emphasis on oral and aural skills.*

| | | |
|---|---|---|
| 0101 | Bahareh Jaleh<br>MWF 10:00am - 10:50am<br>Class time/details on ELMs | Seats (Total: 15)<br>HJP 2114<br>ONLINE |

**PERS201** **Intermediate Persian I**

*Prerequisite: PERS102; or Must have appropriate Foreign Language Placement Test (FLPT) score. Restriction: Must not be native/fluent speaker of Persian.*

*Development of speaking, reading, writing, listening and cultural knowledge through wide variety of activities.*

| | | |
|---|---|---|
| 0101 | Bahareh Jaleh<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 15)<br>HJP 2114<br>ONLINE |

**PERS280** **Art Activism in Iran**

*Credit only granted for: PERS289M, ARTH389O, or PERS280. Formerly: PERS298M.*

*Explores Iranian artists' intent and hope for change and their critical and playful strategies of making a difference through their visual or performing arts created since 1980. While exploring key concepts, contexts, and debates by examining a variety of artworks, we explore diverse and unique transgressive stories, strategies, and styles that these works present to address themes of social justice through the art. We examine how multimedia art forms (dance, theatre, cinema, painting, digital art, and music) empower Iranian artists to practice their identity and exercise their agency as these aspects intersect with race, ethnicity, class, sexuality, ability, and education in a shifting and multilayered context.*

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|---|---|---|
| 0101 | Marjan Moosavi<br>MW 2:00pm - 3:15pm | Seats (Total: 25)<br>ONLINE |

**PERS283** **Iranian Cinema**

*Cross-listed with: CINE283. Credit only granted for: PERS283, CINE283 or FILM298B.*

*Introduction to Iranian cinema, society, and culture. Taught in English.*

Cross-listed with FILM298B. Credit only granted for PERS283, FILM283, or FILM298B.

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|---|---|---|
| 0101 | Marjan Moosavi<br>MW 3:30pm - 4:45pm | Seats (Total: 30)<br>JMZ 2206 |

**PERS301** **Advanced Persian I**

*Prerequisite: PERS202; or permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must not be native/fluent speaker of Persian.*

*Development of speaking, reading, writing, listening and cultural knowledge through wide variety of activities, especially reading.*

| | | |
|---|---|---|
| 0101 | Bahareh Jaleh<br>TuTh 9:30am - 10:45am | Seats (Total: 10)<br>HJP 2114 |

**PERS311** **Persian Media**

*Prerequisite: PERS301; or permission of ARHU-School of Languages, Literatures, and Cultures department.*

*Examines issues, values, institutions of the contemporary Persian and Persianete world, primarily through analysis and discussion of current events as reported in the written and audiovisual press. Focus will be on increasing content knowledge as well as linguistic competency in Persian. Taught in Persian.*

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|---|---|---|
| 0101 | Manizhe Galledari | Seats (Total: 10) |
| | TuTh 11:00am - 12:15pm | HJP 2114 |

**PERS386** **Experiential Learning**

(Perm req)

*Restriction: Permission of ARHU-School of Languages, Literatures, and Cultures department.*

*Pre-professional experience in research, analysis and writing in a work setting. Project proposal approved by faculty and internship sponsor.*

**Contact department for information to register for this course.**

**PERS398M** **Special Topics in Persian Studies; Mystical Love Poetry: East and West**

*Special topic to be announced when course is offered. Taught in Persian.*

Cross-listed with CMLT398G. Credit only granted for PERS398M or CMLT398G. Sufis and mystics like Rumi, Teresa of Avila, John of the Cross, Francisof Assisi, and others like them are among the most influential figures in human history. Although they lived in different times and cultures, they shared the belief that the purpose of human creation is love, and they expressed their thoughts in their love poetry. In this course, we explore the life experiences of these mystics as we read their poems in English translation. We ask questions such as "What is experience?", "When can experience be called mystical?", "Is there a special connection between love and poetry?", and "Why did these thinkers express their mystical encounter with love in poetry?".

| | | |
|---|---|---|
| 0101 | Fatemeh Keshavarz-Karamustafa | Seats (Total: 15) |
| | TuTh 12:30pm - 1:45pm | JMZ 1224 |

**PERS398Q** **Special Topics in Persian Studies; Social Issues in Contemporary Iran**

(Perm req)

*Special topic to be announced when course is offered. Taught in Persian.*

Permission required. Taught in Persian. Blending content and advanced language acquisition, the course examines a range of issues of social significance in today's Iran from multiple perspectives. The primary focus is on developing Superior proficiency in the language and culture.

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|---|---|---|
| 0101 | Ali Abasi<br>M 9:00am - 11:45am | Seats (Total: 10)<br>HJP 3115 |

**PERS398R** **Special Topics in Persian Studies; Persian for Professional Purposes**

(Perm req)

*Special topic to be announced when course is offered. Taught in Persian.*

This advanced-level course introduces students to various genres of use in contemporary Persian both written and spoken. Analysis of various recurring rhetorical contexts as well as typified linguistic responses to such contexts constitutes the primary focus in the course. Taught in Persian.

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|---|---|---|
| 0101 | Manizhe Galledari<br>F 9:00am - 11:45am | Seats (Total: 10)<br>HJP 3115 |

**PERS399** **Directed Study in Persian**

(Perm req)

*Directed study with faculty supervision.*

**Contact department for information to register for this course.**

**PERS399C** **Directed Study in Persian; Living/Learning in Persian House**

(Perm req)

*Directed study with faculty supervision.*

Prerequisite: Permission of departmetn. Taught in Persian.

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|---|---|---|
| 0101 | Manizhe Galledari<br>Contact instructor or department for details. | Seats (Total: 5) |

**PERS399D** **Directed Study in Persian; Capstone Research Project**

(Perm req)

*Directed study with faculty supervision.*

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|---|---|---|
| 0101 | Nahal Akbari-Saneh<br>TuTh 2:00pm - 3:15pm | Seats (Total: 10)<br>HJP 2114 |

**PERS498N** **Special Topics in Persian Studies; Masterpieces of Persian Literature: Classical Persian Literature**

*Topic and language to be announced when offered.*

This course is designed to represent a holistic point of view of the vast world of Persian Literature Throughout the different literary genre. We will be focused on both Verse and Prose from the classical text starting from the 11th century and will proceed by a multitude of samples in Persian literature. Taught in Persian.

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|---|---|---|
| 0101 | Mohammad Bazargan | Seats (Total: 10) |
| | Tu 5:00pm - 7:30pm | HJP 3115 |

**PERS498O** **Special Topics in Persian Studies; Persian Literature in Modern Iran**

*Topic and language to be announced when offered.*

This course facilitates the development of Persian language proficiency and domain-specific knowledge at Advanced High Level on the ACTFL scale. The course assumes a solid knowledge of the core grammatical and lexical features of the Persian Language and involves reading-based discussions and writing activities. The domain of focus is Modern Persian literature. Taught in Persian.

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|---|---|---|
| 0101 | Mohammad Bazargan | Seats (Total: 10) |
| | W 9:00am - 11:45am | HJP 3115 |

**PERS498T** **Special Topics in Persian Studies; Sufism: History, Literature, and Politics of Islamic Mysticism**

*Topic and language to be announced when offered.*

Cross-listed with PERS689T, HIST428Q, HIST638Q, and RELS419Q. Credit only granted for PERS498T, PERS689T, HIST428Q, HIST638Q, or RELS419Q. Provides an introduction to the history, literature, and politics of Sufism the Islamic "mystical" mode of piety from its origins to the modern period.

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|---|---|---|
| 0101 | Matthew Miller | Seats (Total: 25) |
| | Tu 12:30pm - 3:15pm | JMZ 0125 |

**PERS689B** **Special Topics in Persian Studies**

*In-depth analysis of a particular aspect of Persian studies. In Persian.*

**Contact department for information to register for this course.**

**PERS689T** **Special Topics in Persian Studies**

*In-depth analysis of a particular aspect of Persian studies. In Persian.*

Cross-listed with PERS498T, CMLT498T, HIST428Q, HIST638Q, and RELS419Q. Credit only granted for PERS498T, PERS689T, CMLT498T, HIST428Q, HIST638Q, or RELS419Q. Provides an introduction to the history, literature, and politics of Sufism the Islamic "mystical" mode of piety from its origins to the modern period.

| | | |
|---|---|---|
| 0101 | Matthew Miller | Seats (Total: 25) |
| | Tu 12:30pm - 3:15pm | JMZ 0125 |

# PHIL Philosophy Fall 2024

*Click here for fuller PHIL course descriptions.*

**PHIL100** **Introduction to Philosophy**

*An introduction to the literature, problems, and methods of philosophy either through a study of some of the main figures in philosophic thought or through an examination of some of the central and recurring problems of philosophy.*

| | | | |
|---|---|---|---|
| 0101 | Elizabeth Schechter<br>MW 3:00pm - 3:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>SHM 2102<br>TWS 0205 | Discussion |
| 0102 | Elizabeth Schechter<br>MW 3:00pm - 3:50pm<br>F 11:00am - 11:50am | Seats (Total: 20)<br>SHM 2102<br>SYM 0215 | Discussion |
| 0103 | Elizabeth Schechter<br>MW 3:00pm - 3:50pm<br>F 10:00am - 10:50am | Seats (Total: 20)<br>SHM 2102<br>SYM 0215 | Discussion |
| 0104 | Elizabeth Schechter<br>MW 3:00pm - 3:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>SHM 2102<br>TWS 0207 | Discussion |
| 0105 | Elizabeth Schechter<br>MW 3:00pm - 3:50pm<br>F 11:00am - 11:50am | Seats (Total: 20)<br>SHM 2102<br>KNI 1103 | Discussion |
| 0106 | Elizabeth Schechter<br>MW 3:00pm - 3:50pm<br>F 10:00am - 10:50am | Seats (Total: 20)<br>SHM 2102<br>KNI 1103 | Discussion |
| FC01 | Lia Curtis Fine<br>TuTh 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 28)<br>SQH 1121 | |

**PHIL140** **Contemporary Moral Issues**

*The uses of philosophical analysis in thinking clearly about such widely debated moral issues as abortion, euthanasia, homosexuality, pornography, reverse discrimination, the death penalty, business ethics, sexual equality, and economic justice.*

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|---|---|---|---|
| 0101 | Hallie Liberto<br>MW 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 20)<br>SHM 2102<br>SYM 0209 | Discussion |
| 0102 | Hallie Liberto<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 20)<br>SHM 2102<br>SYM 0209 | Discussion |
| 0103 | Hallie Liberto<br>MW 11:00am - 11:50am<br>F 12:00pm - 12:50pm | Seats (Total: 20)<br>SHM 2102<br>SYM 0209 | Discussion |
| 0104 | Hallie Liberto<br>MW 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 20)<br>SHM 2102<br>EDU 2119 | Discussion |
| 0105 | Hallie Liberto<br>MW 11:00am - 11:50am<br>F 12:00pm - 12:50pm | Seats (Total: 20)<br>SHM 2102<br>WDS 0104 | Discussion |
| 0106 | Hallie Liberto<br>MW 11:00am - 11:50am<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>SHM 2102<br>WDS 0104 | Discussion |
| FC01 | Kodie Lustig<br>MW 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 28)<br>SQH 1105 | |
| FC02 | Zhaoqi Hu<br>TuTh 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 28)<br>SQH 1101 | |
| FC03 | Kodie Lustig<br>MW 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 28)<br>SQH 1103 | |
| FC04 | Zhaoqi Hu<br>TuTh 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 28)<br>SQH 1105 | |

**PHIL170 Introduction to Symbolic Logic**

*This course will introduce the basic concepts and techniques of modern symbolic logic, with an emphasis on developing skills in two areas: first, translating between ordinary language and logical notation; second, establishing the validity or invalidity of arguments using the methods of truth tables, deductions, and countermodels. Although the subject of symbolic logic was developed by mathematicians and philosophers for their own special purposes (which we will discuss), logical concepts and techniques have found applications in a variety of disciplines, including computer science, economics, law, linguistics, and psychology. We may also consider some of these applications.*

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|---|---|---|---|
| 0101 | Paolo Santorio<br>MW 11:00am - 11:50am<br>Th 9:30am - 10:20am | Seats (Total: 20)<br>TMH 0301<br>LEF 1220 | <br><br>Discussion |
| 0102 | Paolo Santorio<br>MW 11:00am - 11:50am<br>Th 11:00am - 11:50am | Seats (Total: 20)<br>TMH 0301<br>LEF 1222 | <br><br>Discussion |
| 0103 | Paolo Santorio<br>MW 11:00am - 11:50am<br>Th 12:30pm - 1:20pm | Seats (Total: 20)<br>TMH 0301<br>ARC 1123 | <br><br>Discussion |
| 0104 | Paolo Santorio<br>MW 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 20)<br>TMH 0301<br>KNI 1105 | <br><br>Discussion |
| 0105 | Paolo Santorio<br>MW 11:00am - 11:50am<br>F 12:00pm - 12:50pm | Seats (Total: 20)<br>TMH 0301<br>ASY 3217 | <br><br>Discussion |
| 0106 | Paolo Santorio<br>MW 11:00am - 11:50am<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>TMH 0301<br>ASY 3217 | <br><br>Discussion |

**PHIL202** **Know Thyself: Wisdom Through Cognitive Science**

*Credit only granted for: PHIL209N or PHIL202. Formerly: PHIL209N.*

*How do we improve our decision making? Cognitive science demonstrates that self-knowledge isn't as easy as we think, and that there are numerous biases and fallacies that impact our decision-making in ways that are hard for us to be aware of. In this course you will learn what some of these are and how they have been discovered, and you will explore potential strategies for avoiding these fallacies and for making wiser choices.*

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|---|---|---|---|
| 0101 | Peter Carruthers<br>MW 12:00pm - 12:50pm<br>F 10:00am - 10:50am | Seats (Total: 20)<br>SHM 2102<br>HBK 1108 | Discussion |
| 0102 | Peter Carruthers<br>MW 12:00pm - 12:50pm<br>F 11:00am - 11:50am | Seats (Total: 20)<br>SHM 2102<br>HBK 0125 | Discussion |
| 0103 | Peter Carruthers<br>MW 12:00pm - 12:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>SHM 2102<br>HBK 1108 | Discussion |
| 0104 | Peter Carruthers<br>MW 12:00pm - 12:50pm<br>F 10:00am - 10:50am | Seats (Total: 20)<br>SHM 2102<br>HBK 1112 | Discussion |
| 0105 | Peter Carruthers<br>MW 12:00pm - 12:50pm<br>F 11:00am - 11:50am | Seats (Total: 20)<br>SHM 2102<br>PLS 1117 | Discussion |
| 0106 | Peter Carruthers<br>MW 12:00pm - 12:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>SHM 2102<br>HBK 1112 | Discussion |

**PHIL203** **The Rights and Wrongs of Killing People**

*Credit only granted for: PHIL209J or PHIL203. Formerly: PHIL209J.*

*Virtually everyone thinks it's permissible to kill people only in special circumstances. But why is killing usually wrong? Is it ever acceptable to kill an innocent human being intentionally? This course raises these and related questions and examines cases such as terrorism, suicide, abortion, euthanasia, the death penalty, war. Except for a brief discussion of animals, all the controversies considered deal with killing and causing death to human beings.*

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|---|---|---|---|
| 0101 | Daniel Blair<br>MW 2:00pm - 2:50pm<br>F 10:00am - 10:50am | Seats (Total: 20)<br>SHM 2102<br>PLS 1115 | Discussion |
| 0102 | Daniel Blair<br>MW 2:00pm - 2:50pm<br>F 11:00am - 11:50am | Seats (Total: 20)<br>SHM 2102<br>PLS 1115 | Discussion |

| | | | |
|---|---|---|---|
| 0103 | Daniel Blair<br>MW 2:00pm - 2:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>SHM 2102<br>TWS 0223 | Discussion |
| 0104 | Daniel Blair<br>MW 2:00pm - 2:50pm<br>F 10:00am - 10:50am | Seats (Total: 20)<br>SHM 2102<br>LEF 1171 | Discussion |
| 0105 | Daniel Blair<br>MW 2:00pm - 2:50pm<br>F 11:00am - 11:50am | Seats (Total: 20)<br>SHM 2102<br>LEF 1171 | Discussion |
| 0106 | Daniel Blair<br>MW 2:00pm - 2:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>SHM 2102<br>SQH 1103 | Discussion |

**PHIL211** **AI & ETHICS**

*Credit only granted for: PHIL209D or PHIL211. Formerly: PHIL209D.*

*An introduction to a major subfield of contemporary Philosophy, namely applied ethics, and the experience of using some major tools in the practice of philosophy more generally, namely, the construction and formal evaluation of arguments, conceptual analysis, the use of thought experiments, and clear, direct and persuasive writing. Learning how to execute the latter will involve an intense iterative process. The substantive focus of the course will be the ethical evaluation of Artificial Intelligence (AI) in some of its current and potentially future incarnations. We'll examine algorithmic opacity, algorithmic bias and decision-making, autonomous weapons systems, human-robot interaction, and artificial moral agents, in order to uncover what, if any, ethical issues they give rise to.*

Is Alexa spying on you? How will autonomous vehicles make decisions on the road? Has a relative of yours been denied a loan on account of their zip code? Would you have sex with a robot? Will lethal autonomous weapons make the world safer or more dangerous? Could a robot ever have rights? Does it matter if we can't understand how AI does what it does? What is the future of (human) work? What is a moral machine? Can and should we build one? These are among the questions we will tackle in this up-to-date course on some of the ethical problems and puzzles that artificial intelligence (AI) gives rise to. We will be interested in the problems and puzzles themselves and also in whether they can be ameliorated or solved.

| | | | |
|---|---|---|---|
| 0101 | Susan Dwyer<br>TuTh 2:00pm - 2:50pm<br>F 10:00am - 10:50am | Seats (Total: 20)<br>TYD 0117<br>SQH 2120 | Discussion |
| 0102 | Susan Dwyer<br>TuTh 2:00pm - 2:50pm<br>F 11:00am - 11:50am | Seats (Total: 20)<br>TYD 0117<br>SQH 1121 | Discussion |

| | | | | |
|---|---|---|---|---|
| 0103 | Susan Dwyer<br>TuTh 2:00pm - 2:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>TYD 0117<br>SQH 1105 | | Discussion |

**PHIL245** **Political and Social Philosophy I**

*A critical examination of such classical political theories as those of Plato, Hobbes, Locke, Rousseau, Mill, Marx, and such contemporary theories as those of Hayek, Rawls, and recent Marxist thinkers.*

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|---|---|---|---|---|
| 0101 | Avia Pasternak<br>TuTh 4:00pm - 4:50pm<br>F 10:00am - 10:50am | Seats (Total: 20)<br>TYD 0117<br>EDU 3315 | | Discussion |
| 0102 | Avia Pasternak<br>TuTh 4:00pm - 4:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 20)<br>TYD 0117<br>ARC 1127 | | Discussion |
| 0103 | Avia Pasternak<br>TuTh 4:00pm - 4:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>TYD 0117<br>ARC 1127 | | Discussion |

**PHIL269M** **Special Topics in Study Abroad II; Moral Philosophy**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**PHIL269Y** **Special Topics in Study Abroad II; Truth & Reality**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**PHIL308U** **Studies in Contemporary Philosophy; Philosophy of Yoga**

*Problems, issues, and points of view of current interest in philosophy.*

In the U.S. we tend to think of yoga as a form of gentle exercise or, less charitably, as a bit of New Age nonsense. However, Yoga is actually an ancient practical philosophy that addresses our deepest questions about human life and existence. The many rich theories and practices of Yoga have a single point: the realization of our True Self. We will bring our curiosity to two central Yoga texts- Patanjali's Yoga Sutras and the Bhagavad Gita attempting to understand them in their own terms and to embrace their (timeless) relevance in our 21st century lives. Our study of these ancient texts and some recent secondary literature will be complemented by weekly asana practice. Students enrolling for this course must commit to being on their mats, in appropriate clothing and ready to practice, at 9:25am each Thursday.

| | | | |
|---|---|---|---|
| 0101 | Susan Dwyer<br>Tu 9:30am - 10:45am<br>Th 9:30am - 10:45am | Seats (Total: 30)<br>TWS 0201<br>PKT 2102 | |

**PHIL309K** **Philosophical Problems; Political Epistemology**

*A focused study of a contemporary philosophical problem or issue. Topics will vary, but the course will encourage students to to generate critical analyses or proposed resolutions of issues in the contemporary philosophical literature.*

Cross-listed with PHPE308B. Credit only granted for PHIL309K or PHPE308B.

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|---|---|---|---|
| 0101 | Daniel Blair<br>TuTh 3:30pm - 4:45pm | Seats (Total: 32)<br>TYD 1101 | |

**PHIL310** **Ancient Greek and Roman Philosophy**

*Prerequisite: Must have completed 6 credits in philosophy or classics. Cross-listed with: CLAS310, PHPE308Y. Credit only granted for: PHIL310, CLAS310, or PHPE308Y.*

*A study of the origins and development of philosophy in ancient Greece and Rome, focusing on Socrates, Plato, Aristotle, the Epicureans, and Stoics.*

Cross-listed with PHPE308Y and CLAS310. Credit only granted for PHIL310, PHPE308Y, or CLAS310.

| | | | |
|---|---|---|---|
| 0101 | Rachel Singpurwalla<br>TuTh 12:30pm - 1:20pm<br>F 10:00am - 10:50am | Seats (Total: 20)<br>ESJ 1202<br>EDU 1121 | Discussion |
| 0102 | Rachel Singpurwalla<br>TuTh 12:30pm - 1:20pm<br>F 11:00am - 11:50am | Seats (Total: 20)<br>ESJ 1202<br>TWS 0207 | Discussion |
| 0103 | Rachel Singpurwalla<br>TuTh 12:30pm - 1:20pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>ESJ 1202<br>EDU 2119 | Discussion |

**PHIL338E** **Studies in Value Theory; Black Existentialism**

*Problems, issues and points of view in ethics, aesthetics, political philosophy and related areas.*

Cross-listed with ENGL368O, AASP340, and PHPE308C. Credit only granted for ENGL368O, AASP340, PHIL338E, or PHPE308C.

| | | | |
|---|---|---|---|
| 0101 | John Drabinski<br>TuTh 11:00am - 12:15pm | Seats (Total: 25)<br>TWS 1106 | |

**PHIL338R** **Studies in Value Theory; Life's Meaning**

*Problems, issues and points of view in ethics, aesthetics, political philosophy and related areas.*

This course will introduce students to a range of questions concerning life's meaning. What is the meaning of life? Does it have a single meaning or any meaning(s) at all? What kind of meaning is even at issue when we inquire into life's meaning? Is a meaningful life a good life? Are things like pleasure, knowledge, beauty, or achievements ingredients of a good life? Why if so? If life can be meaningful, then it seems like it makes sense to want it to never end- it makes sense to want to be immortal. But does it? Could an immortal life be a meaning ful life? If not, then that seems to suggest that death isn't so bad. But death also seemsquite bad! What is it about death that makes it bad? Is it possible to make sense of death in a philosophically rigorous way? These are some of the many questions that will be explored in this course, using texts and tools from the intellectual tradition of contemporary analytic Western philosophy.

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|---|---|---|
| 0101 | Nicholas Laskowski | Seats (Total: 30) |
| | TuTh 9:30am - 10:45am | PLS 1119 |

**PHIL338T** **Studies in Value Theory; Philosophy of Tax Law**

*Problems, issues and points of view in ethics, aesthetics, political philosophy and related areas.*

This class is focused on philosophical arguments employed in support or in opposition to contemporary tax policy or proposals. We will use and critique deductive arguments, investigating philosophical topics like: the entitlement to pre-tax income, fair acquisition, fair transfer, the relative strength and duration of property rights, and varied conceptions of vertical and horizontal equity. Constitutional and Historical topics include: The Carriage Tax, Hylton vs. the United States, the 16th Amendment, and Moore vs. the United States. Applied topics include: The State and Local Tax Deduction; Corporate Taxes and more.

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| 0101 | Hallie Liberto | Seats (Total: 30) |
| | MW 3:00pm - 4:15pm | KEY 0102 |

**PHIL341** **Ethical Theory**

*Prerequisite: 6 credits in PHIL courses.*

*A critical examination of classical and contemporary systems of ethics, such as those of Aristotle, Kant, Mill, and Rawls.*

Prerequisite: 6 credit hours in philosophy.

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| 0101 | Jeremiah Tillman | Seats (Total: 30) |
| | MW 9:00am - 10:15am | ASY 3207 |

**PHIL344** **Philosophy of Race**

*Credit only granted for: PHIL344 or PHIL308Y. Formerly: PHIL308Y.*

*A survey of philosophical arguments involving race and racism. Guiding questions will include: How have philosophers and scientists conceived of the concept of race? Is race a coherent concept? Does it help us explain differences in performance and behavior? What makes racism, racial prejudice, and discrimination wrong? What is the point of equality? Do we owe reparations to victims of racism?*

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|---|---|---|
| 0101 | Joseph Gurrola | Seats (Total: 30) |
| | MW 2:00pm - 3:15pm | TWS 0221 |

**PHIL360** **Philosophy of Language**

*Prerequisite: LING311; or 2 courses in PHIL and (PHIL170 or PHIL370); or permission of ARHU-Philosophy department. Cross-listed with: LING350. Credit only granted for: LING350 or PHIL360.*

*The nature and function of language and other forms of symbolism from a philosophical perspective.*

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|---|---|---|
| 0101 | Alexander Williams | Seats (Total: 30) |
| | TuTh 9:30am - 10:45am | EDU 3315 |

**PHIL364** **Metaphysics**

*Prerequisite: 6 credits in PHIL courses. Formerly: PHIL464.*

*The study of some central metaphysical concepts and issues including the nature and validity of metaphysical thinking, universals, identity, substance, time, God, and reality.*

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|---|---|---|
| 0101 | Benjamin Fan | Seats (Total: 30) |
| | TuTh 12:30pm - 1:45pm | BPS 0283 |

**PHIL370** **Logical Theory I: Metatheory**

*Prerequisite: PHIL271 or CMSC250; or permission of the instructor.*

*This course is an introduction to logical "metatheory", that is, to logical reasoning about logic systems themselves. Topics include alternative alternative proof-theoretic presentations of logical systems as well as soundness and completeness theorems for propositional and first-order logic. Along the way, we will deepen our understanding of the elementary set-theoretic concepts underlying first order logic. Other topics may include basic results in the semantics of first order logic (such as the Craig interpolation theorem, the Beth definability theorem, or the Lowenhein-Skolem theorem).*

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|---|---|---|
| 0101 | Masayuki Tashiro | Seats (Total: 30) |
| | TuTh 3:30pm - 4:45pm | SQH 1117 |

**PHIL386** **Experiential Learning**

(Perm req)

*Restriction: Permission of ARHU-Philosophy department; and junior standing or higher.*

Consult Director of Undergraduate Studies: C. Manekin. Prerequisites: 12 credit hours of philosophy and 3.0 GPA. Carries no credit toward philosophy major.

**Contact department for information to register for this course.**

**PHIL412** **The Philosophy of Plato**

*Prerequisite: 6 credits in PHIL courses.*

*A critical study of selected dialogues.*

Cross-listed with PHPE408J. Credit only granted for PHIL412 or PHPE408J.

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| 0101 | Rachel Singpurwalla<br>TuTh 3:30pm - 4:45pm | Seats (Total: 25)<br>ASY 3207 |

**PHIL428D** **Topics in the History of Philosophy; Political Realism**

Cross-listed with PHPE308D. Credit only granted for PHIL428D or PHPE308D.

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|---|---|---|
| 0101 | Xinzhi Zhao<br>TuTh 3:30pm - 4:45pm | Seats (Total: 30)<br>JMZ 0103 |

**PHIL445** **Contemporary Political Philosophy**

*Restriction: Must have completed 3 credits in philosophy or political theory; or permission of ARHU-Philosophy department. And sophomore standing or higher.*

*Major trends in contemporary political philosophy: liberal, libertarian, communitarian, socialist, feminist.*

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| 0101 | Xinzhi Zhao<br>TuTh 8:00am - 9:15am | Seats (Total: 25)<br>EDU 3233 |

**PHIL469Y** **Study Abroad Special Topics IV; Philosophy of Science II**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**PHIL498F** **Topical Investigations; Topical Investigation**

(Perm req)

Prerequisite:Two courses in philosophy or permission of the department.

**Contact department for information to register for this course.**

**PHIL498G** **Topical Investigations; Topical Investigation**

(Perm req)

Prerequisite:Two courses in philosophy or permission of the department.

**Contact department for information to register for this course.**

**PHIL660** **Metaphysics, Mind, and Language**

*A basic course on selected issues in metaphysics, philosophy of mind, and philosophy of language for beginning graduate students, covering a number of topics in depth, to provide a springboard for further study and research in the area.*

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| 0101 | Paolo Santorio | Seats (Total: 15) |
| | M 2:00pm - 4:30pm | SKN 1116 |

**PHIL788G** **Research in Philosophy; Research in Philosophy**

(Perm req)

**Contact department for information to register for this course.**

**PHIL788I** **Research in Philosophy; Research in Philosophy**

(Perm req)

**Contact department for information to register for this course.**

**PHIL799** **Master's Thesis Research; Masters Thesis Research**
**Contact department for information to register for this course.**

**PHIL808K** **Seminar in the Problems of Philosophy**

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|---|---|---|
| 0101 | Elizabeth Schechter | Seats (Total: 15) |
| | Tu 2:00pm - 4:30pm | SKN 1116 |

**PHIL808M** **Seminar in the Problems of Philosophy**

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|---|---|---|
| 0101 | John Horty | Seats (Total: 16) |
| | W 2:30pm - 5:00pm | SKN 1116 |

**PHIL808N** **Seminar in the Problems of Philosophy; Naturalism, Nonnaturalism, and Normativity**

A traditional and still central topic in metaethics concerns morality's location. Naturalists claim that morality is located where science and experience reveal it to be, namely, right here in the natural world. Nonnaturalists claim that morality cannot be located in the natural world - it's its own separate kind of thing entirely. Henry Sidgwick's The Method of Ethics and G. E. Moore's Principia Ethica set the agenda for the debate at the turn of the 20th century. David Copp's Ethical Naturalism and the Problem of Normativity and John Bengson's, Terence Cuneo's, and Russ Shafer-Landau's The Moral Universe are two forthcoming books that are well placed to have a similar influence in the 21st century. Participants in this seminar will work through these books along with other recent, forthcoming, and draft papers on the topic. A few seminar sessions will also be attended and co-instructed in person by Copp, Bengson, and Cuneo.

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| 0101 | Nicholas Laskowski | Seats (Total: 15) |
| | Th 2:00pm - 4:30pm | SKN 1116 |

**PHIL888** **Professional Mentoring for Doctoral Students**

*Work with a faculty advisor on various aspects of professional development.*

**Contact department for information to register for this course.**

**PHIL889** **Pedagogical Mentoring for Doctoral Students**

(Perm req)

*Work with a faculty advisor to develop and improve pedagogical skills.*

**Contact department for information to register for this course.**

**PHIL898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**PHIL899** **Doctoral Dissertation Research; Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# PHPE Philosophy, Politics, and Economics Fall 2024

**PHPE308B** **Special Topics in Philosophy, Politics, and Economics; Political Epistemology**

*A sustained investigation of a topic at the intersection of philosophy, politics and economics.*

Cross-listed with PHIL309K. Credit only granted for PHIL309K or PHPE308B.

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| 0101 | Daniel Blair | Seats (Total: 32) |
| | TuTh 3:30pm - 4:45pm | TYD 1101 |

**PHPE308C** **Special Topics in Philosophy, Politics, and Economics; Black Existentialism**

*A sustained investigation of a topic at the intersection of philosophy, politics and economics.*

Cross-listed with ENGL368O, AASP340, or PHIL338E. Credit only granted for ENGL368O, AASP340, PHIL338E, or PHPE308C.

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| 0101 | John Drabinski | Seats (Total: 25) |
| | TuTh 11:00am - 12:15pm | TWS 1106 |

**PHPE308D** **Special Topics in Philosophy, Politics, and Economics; Political Realism**

*A sustained investigation of a topic at the intersection of philosophy, politics and economics.*

Cross-listed with PHIL428D. Credit only granted for PHIL428D or PHPE308D.

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|---|---|---|
| 0101 | Xinzhi Zhao | Seats (Total: 30) |
| | TuTh 3:30pm - 4:45pm | JMZ 0103 |

**PHPE308R** **Special Topics in Philosophy, Politics, and Economics; Life's Meaning**

*A sustained investigation of a topic at the intersection of philosophy, politics and economics.*

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|---|---|---|---|
| 0101 | Nicholas Laskowski<br>TuTh 9:30am - 10:45am | Seats (Total: 30)<br>PLS 1119 | |

**PHPE308Y** **Ancient Greek and Roman Philosophy**

*Prerequisite: Must have completed 6 credits in philosophy or classics. Cross-listed with: PHIL310, CLAS310. Credit only granted for: PHIL310, CLAS310, or PHPE308Y.*

*A study of the origins and development of philosophy in ancient Greece and Rome, focusing on Socrates, Plato, Aristotle, the Epicureans, and Stoics.*

Cross-listed with PHIL310 and CLAS310. Credit only granted for PHIL310, PHPE308Y, or CLAS310.

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| 0101 | Rachel Singpurwalla<br>TuTh 12:30pm - 1:20pm<br>F 10:00am - 10:50am | Seats (Total: 20)<br>ESJ 1202<br>EDU 1121 | <br><br>Discussion |
| 0102 | Rachel Singpurwalla<br>TuTh 12:30pm - 1:20pm<br>F 11:00am - 11:50am | Seats (Total: 20)<br>ESJ 1202<br>TWS 0207 | <br><br>Discussion |
| 0103 | Rachel Singpurwalla<br>TuTh 12:30pm - 1:20pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>ESJ 1202<br>EDU 2119 | <br><br>Discussion |

**PHPE386** **Experiential Learning Practicum in Philosophy, Politics, and Economics**

(Perm req)

*Restriction: Junior standing or higher.*

*For students who wish to gain experience working in research outside the classroom. Pending approval of the department, students may work at a professional site or remotely under professional supervision - your primary supervisor must be a professional in the field. Beyond working at a professional site or under professional supervision, students will have to complete further assignments to receive a passing grade in the course. Students may take PHPE386 for three-six credits, but only three credits will count towards the major requirements. PHPE386 is only open to those with junior standing or above.*

**Contact department for information to register for this course.**

**PHPE400** **Individual and Group Decision-Making**

*Foundational issues that arise within the theories of rational choice that underlie the treatments of decision-making found in economics, politics, and the other social sciences. The course is focused on individual decisions (rational choice theory), strategic decisions (game theory) and group decisions (social choice theory). In addition to presenting the formal models of decision making, we also discuss to what extent these mathematical theories explain social interactions. An important aspect of the course is to introduce students to the ways in which economic analysis has been applied to issues in social and political philosophy. Readings will be drawn from the literature in economics, psychology, statistics and political science, as well as philosophy.*

For 2023 academic year, PHPE400 is only being offered in the Fall semester. Credit only granted for PHPE400 or GVPT449D.

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|---|---|---|---|
| 0101 | Eric Pacuit<br>MW 12:00pm - 12:50pm<br>F 10:00am - 10:50am | Seats (Total: 18)<br>TWS 1310<br>ASY 3217 | <br><br>Discussion |
| 0102 | Eric Pacuit<br>MW 12:00pm - 12:50pm<br>F 11:00am - 11:50am | Seats (Total: 18)<br>TWS 1310<br>ASY 3217 | <br><br>Discussion |
| 0103 | Eric Pacuit<br>MW 12:00pm - 12:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>TWS 1310<br>PLS 1113 | <br><br>Discussion |

**PHPE401** **Social Philosophy and Political Economy**

*Examines capitalism and socialism as differing modes of economic production through several different theoretical lenses. We begin by examining capitalism and socialism as they developed historically, by looking primarily at the work of Adam Smith and Karl Marx. Then, we turn our attention to one of the most important debates in 20th century economics: to what extent rational economic calculation is possible in a socialist commonwealth. After this we turn our attention to how capitalist and socialist modes of production functioned in practice. We end by turning our attention to the ethics of capitalism and socialism: which mode of economic production is most just?*

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|---|---|---|---|
| 0101 | Xinzhi Zhao<br>TuTh 12:30pm - 1:45pm | Seats (Total: 25)<br>SQH 1123 | |

**PHPE402** **Senior Capstone in Philosophy, Politics, and Economics**

*Restriction: Must be in the Philosophy, Politics, and Economics major; and must have senior standing.*

*Senior capstone course for the Philosophy, Politics, and Economics major. The exact content of the course will be determined by the instructor who teaches it. The purpose of the course is to pursue sustained inquiry on a narrow philosophical topic, using the tools and methods from economics and political science to help analyze the topic. The course ends with a substantial research paper, where the student should demonstrate an ability to use the tools of philosophy, political science, and economics in his or her analysis.*

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| 0101 | Dan Moller | Seats (Total: 30) |
| | TuTh 3:30pm - 4:45pm | VMH 1203 |

**PHPE408J** **Advanced Topics in Philosophy, Politics, and Economics; The Philosophy of Plato**

*A sustained investigation of a topic at the intersection of philosophy, politics and economics.*

Cross-listed with PHIL412. Credit only granted for PHIL412 or PHPE408J. A critical study of selected dialogues.

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|---|---|---|
| 0101 | Rachel Singpurwalla | Seats (Total: 25) |
| | TuTh 3:30pm - 4:45pm | ASY 3207 |

# PHSC Public Health Science Fall 2024

**PHSC201** **The Pursuit of Career Success in Public Health Science**

*Restriction: Must be in the Public Health Science program. Credit only granted for: PHSC388D or PHSC201. Formerly: PHSC388D.*

*Explore the dynamic connection between experiential learning and career readiness in the field of public health by engaging with insightful podcasts that bring real-world perspectives to the forefront. Through active learning, you will evaluate your skill set, reflect on your experiences, analyze industry trends, and uncover best practices essential for success in the public health workforce. This course is designed to help you bridge the gap between your current abilities and your career aspirations. By strategically planning your curricular and co-curricular engagement, you'll develop a roadmap tailored to your unique goals. This personalized action plan will empower you to navigate your career path moving fearlessly forward.*

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| 0101 | Shannon Edward | Seats (Total: 30) |
| | **Meets August 26, 2024 - October 15, 2024** | |
| | W 10:00am - 10:50am | SPH 0303 |
| | Class time/details on ELMs | ONLINE |

**PHSC300** **Foundations of Public Health**

*Restriction: Must be a major within the School of Public Health. Credit only granted for: SPHL100 or PHSC300.*

*An overview of the goals, functions, and methods of public health. After an introduction to the core concepts and tools used in public health research and practice, applications of these methodologies are considered in the context of current controversies/problems in public health. Students work together to develop strategies for prevention and control that take into consideration different points of view, outside research, and impacts on individuals and communities.*

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|---|---|---|---|
| ESG1 | Shuling Wu<br>Th 10:30am - 1:00pm<br>Class time/details on ELMs | Seats (Total: 35)<br>BLD3 3225<br>ONLINE | Discussion |
| | *Restricted to Shady Grove students in the Public Health Science major.* | | |

**PHSC388E** **Special Topics in Public Health Science; Peer Mentoring**

(Perm req)

*Will differ by specific course offering.*

**Contact department for information to register for this course.**

**PHSC389** **Independent Research Study in Public Health Science**

(Perm req)

*This independent research-based experience will provide the opportunity for students to work with individual research mentors in the area of Public Health Science. Students must identify a mentor prior to obtaining departmental permission.*

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|---|---|---|
| 0101 | Shannon Edward<br>Contact instructor or department for details.<br>*Restricted to College Park students in the Public Health Science major.* | Seats (Total: 30) |
| ESG1 | Shannon Edward<br>Contact instructor or department for details.<br>*Restricted to Shady Grove students in the Public Health Science major.* | Seats (Total: 20) |

**PHSC399** **Public Health Science Internship**

(Perm req)

*The Public Health Science internship will enable students to gain practical experience under conditions conducive to academic, research and professional development. The internship is a time-limited, supervised period of public health professional experience carried out in a related professional organization or research setting.*

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|---|---|---|
| 0101 | Shannon Edward<br>Contact instructor or department for details.<br>*Restricted to College Park students in the Public Health Science major.* | Seats (Total: 30) |
| ESG1 | Shannon Edward<br>Contact instructor or department for details.<br>*Restricted to Shady Grove students in the Public Health Science major.* | Seats (Total: 20) |

**PHSC412** **Food, Policy, and Public Health**

*Prerequisite: Must have completed HLSA300 with a C- or higher. Recommended: NFSC100. Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC412 or SPHL412. Formerly: SPHL412.*

*Broad overview of the impact of food and food policy on public health. Course covers topics such as access to food, food systems, influence of food policies on the individual, the cost of food, influences on food selection, food safety risks and responses, nutrition-related health challenges, and a comparison of US food/nutrition issues with those of other nations.*

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|---|---|---|---|
| ESG1 | Michael Bazaco<br>W 5:00pm - 7:30pm | Seats (Total: 35)<br>ONLINE | |
| | *Restricted to Shady Grove students in the Public Health Science major.* | | |

**PHSC415** **Essentials of Public Health Biology: The Cell, The Individual, and Disease**

*Prerequisite: Minimum grade of C- in BSCI202. Recommended: BSCI223. Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC415, SPHL415 or SPHL498J. Formerly: SPHL415 and SPHL498J.*

*Presents the basic scientific and biomedical concepts of modern public health problems and explores in depth mechanisms and models of the major categories of disease. The biologic principles presented are foundations to public health disease prevention, control, or management programs.*

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| 0101 | Jessica O'Hara<br>W 1:00pm - 1:50pm<br>Class time/details on ELMs<br>W 2:00pm - 2:50pm | Seats (Total: 35)<br>SPH 1312<br>ONLINE<br>SPH 1301 | <br><br><br>Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0102 | Jessica O'Hara<br>W 1:00pm - 1:50pm<br>Class time/details on ELMs<br>W 3:00pm - 3:50pm | Seats (Total: 35)<br>SPH 1312<br>ONLINE<br>SPH 1301 | <br><br><br>Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0103 | Jessica O'Hara<br>W 1:00pm - 1:50pm<br>Class time/details on ELMs<br>Th 12:30pm - 1:20pm | Seats (Total: 35)<br>SPH 1312<br>ONLINE<br>PLS 1119 | <br><br><br>Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |

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|---|---|---|---|
| 0104 | Jessica O'Hara<br>W 1:00pm - 1:50pm<br>Class time/details on ELMs<br>Th 2:00pm - 2:50pm | Seats (Total: 35)<br>SPH 1312<br>ONLINE<br>PLS 1119 | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| 0105 | Jessica O'Hara<br>W 1:00pm - 1:50pm<br>Class time/details on ELMs<br>Th 3:00pm - 3:50pm | Seats (Total: 35)<br>SPH 1312<br>ONLINE<br>PLS 1119 | Discussion |
| | *Restricted to College Park students in the Public Health Science major.* | | |
| ESG1 | Mark Scheckelhoff<br>M 5:00pm - 7:30pm | Seats (Total: 35)<br>BLD3 2131 | |
| | *Restricted to Shady Grove students in the Public Health Science major.* | | |

**PHSC420** **Vaccines and Immunology**

*Prerequisite: Minimum grade of C- in BSCI202. Recommended: CHEM231. Restriction: Must have earned a minimum of 60 credits. And must be in Public Health Science program; or permission of instructor.*

*An exploration of immunology and vaccines through a public health lens. We will examine the cells, systems, and molecules that comprise the human immune system and defend your body against disease. In addition, we will discuss the strategies used during vaccine development including the history and future of vaccination and how increased understanding of the immune system has allowed scientists to improve and refine the process. Finally we will examine the current social and political situation surrounding vaccination and the roles and responsibility of public health practitioners.*

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| 0101 | Jennifer German<br>TuTh 12:30pm - 1:45pm | Seats (Total: 35)<br>SPH 1301 | |

**PHSC425** **Genetics, Genomics, and Public Health**

*Prerequisite: Must have completed BSCI170 and 171 with a C- or higher. Recommended: BSCI222 and BSCI223. Restriction: Must have earned a minimum of 60 credits; and must be in Public Health Science program. Credit only granted for: SPHL498X OR PHSC425. Formerly: SPHL498X.*

*Recent advances in genomic science and biomedical technologies have increased our understanding of the genetic basis of disease and the interplay between genetics and environmental and behavioral factors. This course will provide a solid background in basic genetics and genomic science and highlight the role of public health professionals in translating breakthroughs in this rapidly transforming field into the clinical setting, program planning, and policy. Topics covered will include the molecular basis for genetic variation, fetal and newborn screening, genetic risk factors for cancer, pharmacogenetics, the role of pathogen genomics in outbreak investigation, and applications of genetic engineering in solving public health issues.*

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| 0101 | Jennifer German<br>TuTh 9:30am - 10:45am | Seats (Total: 10)<br>SPH 0301 | |

**PHSC430** **Public Health in the City: Perspectives on Health in the Urban Environment**

*Prerequisite: Minimum grade of C- in BSCI202 and MIEH300. Restriction: Must be in Public Health Science program; and junior standing or higher. Credit only granted for: PHSC430 or SPHL498G. Formerly: SPHL498G.*

*Exposure to issues related to city habitation and the health of the public, including how the urban environment impacts the lives and health of city dwellers, including discussion of the social determinants of health. Students are encouraged to think about urban health and policy, and to question the current state of urban public health. Issues of race, class, and equality will be discussed throughout the course as they relate to each of these topics.*

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|---|---|---|---|
| 0101 | Kendall Bustad<br>Class time/details on ELMs | Seats (Total: 35)<br>ONLINE | |

**PHSC450** **Addressing Social and Structural Inequities Through Public Health**

*Prerequisite: Minimum grade of C- in MIEH300; and 1 course with a minimum grade of C- from either SPHL100 or PHSC300.*

*A focus on addressing social and structural inequities within race, gender, disability, and class through various perspectives in the field of public health. Students explore the causes, challenges, consequences, and extent these injustices have on health disparities from local, national, and global perspectives. Students view these inequities through the lens of the affected populations, and work interactively and collaboratively to interpret, design, and evaluate public health interventions and approaches to address key health disparities within specific communities. The aim of this course is to help students define appropriate research and address structural inequities with innovative approaches through the professional practice of public health.*

Restricted to College Park students in the Public Health Science major (12140).

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| 0101 | Kendall Bustad<br>MW 3:00pm - 3:50pm<br>Th 8:00am - 8:50am | Seats (Total: 20)<br>IRB 0324<br>SPH 0116B | <br><br>Discussion |
| 0102 | Kendall Bustad<br>MW 3:00pm - 3:50pm<br>Th 9:30am - 10:20am | Seats (Total: 20)<br>IRB 0324<br>SPH 0116B | <br><br>Discussion |
| 0103 | Kendall Bustad<br>MW 3:00pm - 3:50pm<br>Th 11:00am - 11:50am | Seats (Total: 20)<br>IRB 0324<br>SPH 0116B | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 0104 | Kendall Bustad<br>MW 3:00pm - 3:50pm<br>Th 12:30pm - 1:20pm | Seats (Total: 20)<br>IRB 0324<br>SPH 0116B | Discussion |
| 0105 | Kendall Bustad<br>MW 3:00pm - 3:50pm<br>Th 2:00pm - 2:50pm | Seats (Total: 20)<br>IRB 0324<br>SPH 0116B | Discussion |
| 0106 | Kendall Bustad<br>MW 3:00pm - 3:50pm<br>Th 4:00pm - 4:50pm | Seats (Total: 20)<br>IRB 0324<br>SPH 0116B | Discussion |
| 0107 | Kendall Bustad<br>MW 3:00pm - 3:50pm<br>F 10:00am - 10:50am | Seats (Total: 20)<br>IRB 0324<br>SPH 0225 | Discussion |
| 0108 | Kendall Bustad<br>MW 3:00pm - 3:50pm<br>F 11:00am - 11:50am | Seats (Total: 20)<br>IRB 0324<br>SPH 0225 | Discussion |

**PHSC497** **Public Health Science Capstone**

*Prerequisite: Must have completed the professional writing requirement with a C- or higher; and minimum grade of C- in PHSC450. Restriction: Must have earned a minimum of 100 credits; and must be in Public Health Science program; and must be in the final semester of undergraduate study. Credit only granted for: SPHL498F or PHSC497. Formerly: SPHL498F.*

*The capstone course is the culminating experience for Public Health Science students and must be taken only in the final semester of study. The Public Health Science capstone course is designed to challenge students to integrate the five core areas of public health in investigating, researching and addressing public health issues. Throughout the semester, students will be required to evaluate, analyze and synthesize scholarly works as they research and propose solutions to a variety of public health issues. By the conclusion of this research based course, students will understand how the various public health perspectives can combine in addressing and informing public health practices.*

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|---|---|---|---|
| 0101 | Kendall Bustad<br>M 4:00pm - 6:30pm | Seats (Total: 20)<br>EGR 3114 | |
| 0301 | Kevin Glasz<br>Tu 4:00pm - 6:30pm | Seats (Total: 20)<br>SPH 0116B | |
| 0601 | Jennifer German<br>W 4:00pm - 6:30pm | Seats (Total: 20)<br>SPH 0116B | |

# PHYS Physics Fall 2024

**PHYS102** **Physics of Music**

*Prerequisite: Must have math eligibility of MATH107 or higher. Credit only granted for: PHYS102 and PHYS499C. Additional information: CORE Distributive Studies Physical Sciences Laboratory Course only when taken concurrently with PHYS103.*

*A study of the physical basis of sound, acoustical properties of sound, the human ear and voice, reproduction of sound, electronic music, acoustical properties of auditoriums, and other selected topics.*

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|---|---|---|---|
| 0101 | Matt Severson<br>TuTh 9:30am - 10:45am | Seats (Total: 142)<br>PHY 1410 | |

**PHYS103** **Physics of Music Laboratory**

*Optional laboratory to accompany PHYS 102. Laboratory experiments, including the velocity of sound, sound quality and wave shape, traveling and standing waves, fourier synthesis and analysis, musical synthesizer, psychoacoustics, and audio equipment.*

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|---|---|---|---|
| 0101 | Andris Skuja<br>Th 11:00am - 12:50pm | Seats (Total: 24)<br>PHY 3220 | Lab |
| 0501 | Andris Skuja<br>F 12:00pm - 1:50pm | Seats (Total: 24)<br>PHY 3220 | Lab |
| 0701 | Andris Skuja<br>W 3:00pm - 5:00pm | Seats (Total: 24)<br>PHY 3220 | Lab |
| 0801 | Andris Skuja<br>W 1:00pm - 2:50pm | Seats (Total: 24)<br>PHY 3220 | Lab |

**PHYS105** **A Global Challenge: Energy and Climate Change**

*Additional information: This course is aimed at the non-science major.*

*How will the world address the energy needs of a growing population and its impact on climate change? This class will explore potential solutions to mitigate our atmospheric impact, including technological innovations and policy measures. Additionally, we will analyze the roles of economics, government, and industry in shaping our responses within the context of modern science.*

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|---|---|---|---|
| 0101 | Jordan Goodman<br>MW 1:00pm - 1:50pm<br>Class time/details on ELMs<br>Th 10:00am - 10:50am | Seats (Total: 25)<br>PHY 1204<br>ONLINE<br>PHY 1204 | <br><br><br>Discussion |

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|---|---|---|---|
| 0103 | Jordan Goodman | Seats (Total: 25) | |
| | MW 1:00pm - 1:50pm | PHY 1204 | |
| | Class time/details on ELMs | ONLINE | |
| | F 1:00pm - 1:50pm | PHY 1219 | Discussion |

**PHYS111** **Physics in the Modern World**

*A survey course in general physics emphasizing the role that physics plays in science, technology, and society today. The course is concept oriented and minimal use of mathematics is made. Intended for the general student; does not satisfy the requirements of the professional schools.*

**Contact department for information to register for this course.**

**PHYS115** **Inquiry into Physics**

*Recommended: High School Physics. Restriction: Must not have completed PHYS117; and must be in one of the following programs (Elementary Education; Early Childhood Education; Middle School Education). Credit only granted for: PHYS115 or PHYS117.*

*Intended for students majoring in neither the physical nor the biological sciences. Use of laboratory-based and inquiry-based methods to study some of the basic ideas of physical sciences.*

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|---|---|---|---|
| 0101 | Laura Lising | Seats (Total: 20) | |
| | MWF 1:00pm - 1:50pm | PHY 3316 | Lab |
| | MWF 2:00pm - 2:50pm | PHY 3316 | Discussion |
| 0201 | Arpita Upadhyaya | Seats (Total: 20) | |
| | MWF 9:00am - 9:50am | PHY 3316 | Lab |
| | MWF 10:00am - 10:50am | PHY 3316 | Discussion |

**PHYS121** **Fundamentals of Physics I**

*Prerequisite: MATH113 or MATH115. Credit only granted for: PHYS121, PHYS131, or PHYS331.*

*The first part of a two-semester course in general physics treating the fields of mechanics, heat, sound, electricity, magnetism, optics, and modern physics. Together with PHYS122, this generally satisfies the minimum requirement of medical and dental schools.*

Physics clinic, PHY 1214, MTWHF 11,1. If purchasing used books additional software may be required. Students must pay a $50.00 laboratory materials fee.

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|---|---|---|---|
| 0201 | Aria Heidarian | Seats (Total: 28) | |
| | MWF 12:00pm - 12:50pm | PHY 1412 | |
| | M 10:00am - 11:50am | PHY 3306 | Lab |
| | M 9:00am - 9:50am | PHY 1402 | Discussion |

| | | | |
|---|---|---|---|
| 0202 | Aria Heidarian | Seats (Total: 28) | |
| | MWF 12:00pm - 12:50pm | PHY 1412 | |
| | M 2:00pm - 3:50pm | PHY 3306 | Lab |
| | M 1:00pm - 1:50pm | PHY 1402 | Discussion |
| 0203 | Aria Heidarian | Seats (Total: 28) | |
| | MWF 12:00pm - 12:50pm | PHY 1412 | |
| | Tu 9:00am - 10:50am | PHY 3306 | Lab |
| | Tu 8:00am - 8:50am | PHY 1402 | Discussion |
| 0204 | Aria Heidarian | Seats (Total: 28) | |
| | MWF 12:00pm - 12:50pm | PHY 1412 | |
| | Tu 3:00pm - 4:50pm | PHY 3306 | Lab |
| | Tu 2:00pm - 2:50pm | PHY 1402 | Discussion |
| 0205 | Aria Heidarian | Seats (Total: 28) | |
| | MWF 12:00pm - 12:50pm | PHY 1412 | |
| | W 5:00pm - 6:50pm | PHY 3306 | Lab |
| | W 4:00pm - 4:50pm | PHY 1402 | Discussion |
| 0206 | Aria Heidarian | Seats (Total: 28) | |
| | MWF 12:00pm - 12:50pm | PHY 1412 | |
| | W 3:00pm - 4:50pm | PHY 3306 | Lab |
| | W 2:00pm - 2:50pm | PHY 1204 | Discussion |
| 0401 | Peter Shawhan | Seats (Total: 28) | |
| | TuTh 6:30pm - 7:45pm | PHY 1410 | |
| | M 8:00pm - 9:50pm | PHY 3306 | Lab |
| | M 7:00pm - 7:50pm | PHY 1402 | Discussion |
| 0402 | Peter Shawhan | Seats (Total: 28) | |
| | TuTh 6:30pm - 7:45pm | PHY 1410 | |
| | W 8:00pm - 9:50pm | PHY 3306 | Lab |
| | W 7:00pm - 7:50pm | PHY 1402 | Discussion |
| 0403 | Peter Shawhan | Seats (Total: 28) | |
| | TuTh 6:30pm - 7:45pm | PHY 1410 | |
| | Th 8:00pm - 9:50pm | PHY 3306 | Lab |
| | Tu 8:00pm - 8:50pm | PHY 1402 | Discussion |

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|---|---|---|---|
| 0405 | Peter Shawhan | Seats (Total: 13) | |
| | TuTh 6:30pm - 7:45pm<br>Tu 8:00pm - 9:50pm<br>Th 8:00pm - 8:50pm | PHY 1410<br>PHY 3306<br>PHY 1402 | <br>Lab<br>Discussion |
| SEF1 | Peter Shawhan | Seats (Total: 15) | |
| | TuTh 6:30pm - 7:45pm<br>Tu 8:00pm - 9:50pm<br>Th 8:00pm - 8:50pm<br><br>*Must be in the Science in the Evening (SIE) program.* | PHY 1410<br>PHY 3306<br>PHY 1402 | <br>Lab<br>Discussion |

**PHYS122** **Fundamentals of Physics II**

*Prerequisite: PHYS121; or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS122, PHYS132, or PHYS332.*

*A continuation of PHYS121, which together with it, generally satisfies the minimum requirement of medical and dental schools.*

Physics clinic, PHY 1214, MTWHF 12,2. If purchasing used books additional software may be required. Students must pay a $50.00 laboratory materials fee.

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|---|---|---|---|
| 0101 | Aria Heidarian | Seats (Total: 24) | |
| | MWF 1:00pm - 1:50pm<br>M 4:00pm - 5:50pm<br>M 3:00pm - 3:50pm | PHY 1410<br>PHY 3314<br>PHY 1219 | <br>Lab<br>Discussion |
| 0102 | Aria Heidarian | Seats (Total: 24) | |
| | MWF 1:00pm - 1:50pm<br>Tu 10:00am - 11:50am<br>Th 10:00am - 10:50am | PHY 1410<br>PHY 3314<br>PHY 1219 | <br>Lab<br>Discussion |
| 0105 | Aria Heidarian | Seats (Total: 24) | |
| | MWF 1:00pm - 1:50pm<br>Tu 4:00pm - 5:50pm<br>Th 4:00pm - 4:50pm | PHY 1410<br>PHY 3314<br>PHY 1219 | <br>Lab<br>Discussion |
| 0401 | Carter Hall | Seats (Total: 15) | |
| | MW 6:00pm - 7:15pm<br>M 7:30pm - 9:20pm<br>W 7:30pm - 8:20pm | PHY 1201<br>PHY 3314<br>PHY 1219 | <br>Lab<br>Discussion |

| | | | |
|---|---|---|---|
| SEF1 | Carter Hall<br>MW 6:00pm - 7:15pm<br>M 7:30pm - 9:20pm<br>W 7:30pm - 8:20pm<br>*Must be in the Science in the Evening (SIE) program.* | Seats (Total: 9)<br>PHY 1201<br>PHY 3314<br>PHY 1219 | <br><br>Lab<br>Discussion |

**PHYS131 Fundamentals of Physics for Life Sciences I**

*Prerequisite: CHEM131; and (MATH136 or MATH140); and (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Credit only granted for: PHYS121, PHYS131, or PHYS331.*

*The first part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic mechanics including forces and energy, properties of matter, and thermodynamics done in authentic biological contexts.*

Students must pay a $50.00 laboratory materials fee.

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|---|---|---|---|
| 0101 | David Buehrle<br>MWF 10:00am - 10:50am<br>Tu 9:00am - 11:50am | Seats (Total: 24)<br>PHY 1412<br>PHY 3310 | <br><br>Lab |
| 0102 | David Buehrle<br>MWF 10:00am - 10:50am<br>Th 9:00am - 11:50am | Seats (Total: 24)<br>PHY 1412<br>PHY 3310 | <br><br>Lab |
| 0103 | David Buehrle<br>MWF 10:00am - 10:50am<br>Tu 12:00pm - 2:50pm | Seats (Total: 24)<br>PHY 1412<br>PHY 3310 | <br><br>Lab |
| 0104 | David Buehrle<br>MWF 10:00am - 10:50am<br>Th 12:00pm - 2:50pm | Seats (Total: 24)<br>PHY 1412<br>PHY 3310 | <br><br>Lab |
| 0105 | David Buehrle<br>MWF 10:00am - 10:50am<br>Tu 3:00pm - 5:50pm | Seats (Total: 24)<br>PHY 1412<br>PHY 3310 | <br><br>Lab |
| 0106 | David Buehrle<br>MWF 10:00am - 10:50am<br>Th 3:00pm - 5:50pm | Seats (Total: 24)<br>PHY 1412<br>PHY 3310 | <br><br>Lab |

| | | | |
|---|---|---|---|
| 0107 | David Buehrle<br>MWF 10:00am - 10:50am<br>M 6:00pm - 8:50pm | Seats (Total: 24)<br>PHY 1412<br>PHY 3310 | <br><br>Lab |
| 0108 | David Buehrle<br>MWF 10:00am - 10:50am<br>W 6:00pm - 8:50pm | Seats (Total: 25)<br>PHY 1412<br>PHY 3310 | <br><br>Lab |
| 0127 | David Buehrle<br>MWF 10:00am - 10:50am<br>Tu 6:00pm - 8:50pm | Seats (Total: 6)<br>PHY 1412<br>PHY 3310 | <br><br>Lab |
| 0128 | David Buehrle<br>MWF 10:00am - 10:50am<br>Th 6:00pm - 8:50pm | Seats (Total: 5)<br>PHY 1412<br>PHY 3310 | <br><br>Lab |
| 0201 | David Buehrle<br>TuTh 2:00pm - 3:15pm<br>M 9:00am - 11:50am | Seats (Total: 24)<br>PHY 1412<br>PHY 3310 | <br><br>Lab |
| 0202 | David Buehrle<br>TuTh 2:00pm - 3:15pm<br>W 9:00am - 11:50am | Seats (Total: 24)<br>PHY 1412<br>PHY 3310 | <br><br>Lab |
| 0203 | David Buehrle<br>TuTh 2:00pm - 3:15pm<br>M 12:00pm - 2:50pm | Seats (Total: 24)<br>PHY 1412<br>PHY 3310 | <br><br>Lab |
| 0204 | David Buehrle<br>TuTh 2:00pm - 3:15pm<br>W 12:00pm - 2:50pm | Seats (Total: 24)<br>PHY 1412<br>PHY 3310 | <br><br>Lab |
| 0205 | David Buehrle<br>TuTh 2:00pm - 3:15pm<br>M 3:00pm - 5:50pm | Seats (Total: 24)<br>PHY 1412<br>PHY 3310 | <br><br>Lab |
| 0206 | David Buehrle<br>TuTh 2:00pm - 3:15pm<br>W 3:00pm - 5:50pm | Seats (Total: 24)<br>PHY 1412<br>PHY 3310 | <br><br>Lab |

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|---|---|---|---|
| 0207 | David Buehrle<br>TuTh 2:00pm - 3:15pm<br>Tu 6:00pm - 8:50pm | Seats (Total: 18)<br>PHY 1412<br>PHY 3310 | <br><br>Lab |
| 0208 | David Buehrle<br>TuTh 2:00pm - 3:15pm<br>Th 6:00pm - 8:50pm | Seats (Total: 19)<br>PHY 1412<br>PHY 3310 | <br><br>Lab |

**PHYS132** **Fundamentals of Physics for Life Sciences II**

*Prerequisite: PHYS131; or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS122, PHYS132, or PHYS332.*

*The second part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic statistical physics, electricity and magnetism, and optics done in authentic biological contexts.*

Students must pay a $50.00 laboratory materials fee.

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|---|---|---|---|
| 0101 | Wolfgang Losert<br>MWF 12:00pm - 12:50pm<br>Tu 9:00am - 11:50am | Seats (Total: 24)<br>ESJ 2208<br>PHY 3312 | <br><br>Lab |
| 0103 | Wolfgang Losert<br>MWF 12:00pm - 12:50pm<br>Tu 12:00pm - 2:50pm | Seats (Total: 24)<br>ESJ 2208<br>PHY 3312 | <br><br>Lab |
| 0105 | Wolfgang Losert<br>MWF 12:00pm - 12:50pm<br>M 3:00pm - 5:50pm | Seats (Total: 24)<br>ESJ 2208<br>PHY 3312 | <br><br>Lab |
| 0106 | Wolfgang Losert<br>MWF 12:00pm - 12:50pm<br>Tu 3:00pm - 5:50pm | Seats (Total: 22)<br>ESJ 2208<br>PHY 3312 | <br><br>Lab |
| 0107 | Wolfgang Losert<br>MWF 12:00pm - 12:50pm<br>M 6:00pm - 8:50pm | Seats (Total: 17)<br>ESJ 2208<br>PHY 3312 | <br><br>Lab |
| 0201 | Matt Severson<br>TuTh 12:30pm - 1:45pm<br>M 9:00am - 11:50am | Seats (Total: 24)<br>PHY 1410<br>PHY 3312 | <br><br>Lab |

| | | | |
|---|---|---|---|
| 0203 | Matt Severson<br>TuTh 12:30pm - 1:45pm<br>M 12:00pm - 2:50pm | Seats (Total: 24)<br>PHY 1410<br>PHY 3312 | <br><br>Lab |
| 0204 | Matt Severson<br>TuTh 12:30pm - 1:45pm<br>W 12:00pm - 2:50pm | Seats (Total: 24)<br>PHY 1410<br>PHY 3312 | <br><br>Lab |
| 0205 | Matt Severson<br>TuTh 12:30pm - 1:45pm<br>W 3:00pm - 5:50pm | Seats (Total: 24)<br>PHY 1410<br>PHY 3312 | <br><br>Lab |
| 0208 | Matt Severson<br>TuTh 12:30pm - 1:45pm<br>Tu 6:00pm - 8:50pm | Seats (Total: 24)<br>PHY 1410<br>PHY 3312 | <br><br>Lab |
| 0216 | Matt Severson<br>TuTh 12:30pm - 1:45pm<br>Tu 3:00pm - 5:50pm | Seats (Total: 2)<br>PHY 1410<br>PHY 3312 | <br><br>Lab |
| 0217 | Matt Severson<br>TuTh 12:30pm - 1:45pm<br>M 6:00pm - 8:50pm | Seats (Total: 7)<br>PHY 1410<br>PHY 3312 | <br><br>Lab |

**PHYS161** **General Physics: Mechanics and Particle Dynamics**

*Prerequisite: Must have completed or be concurrently enrolled in MATH141. Credit only granted for: PHYS141, PHYS161, or PHYS171. Additional information: General Education Natural Sciences Lab (DSNL) Course only when taken concurrently with PHYS275.*

*First semester of a three-semester calculus-based general physics course. Laws of motion, force, and energy; principles of mechanics, collisions, linear momentum, rotation, and gravitation.*

Physics clinic, PHY 1214, MTWHF 11, 2. If purchasing used books additional software may be required.

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|---|---|---|---|
| 0101 | David Buehrle<br>MWF 3:00pm - 3:50pm<br>Tu 3:00pm - 3:50pm | Seats (Total: 35)<br>PHY 1410<br>PHY 1204 | <br><br>Discussion |
| 0102 | David Buehrle<br>MWF 3:00pm - 3:50pm<br>Th 2:00pm - 2:50pm | Seats (Total: 35)<br>PHY 1410<br>PHY 1402 | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 0104 | David Buehrle<br>MWF 3:00pm - 3:50pm<br>F 11:00am - 11:50am | Seats (Total: 35)<br>PHY 1410<br>ATL 1113 | Discussion |
| 0201 | Bei Lok Hu<br>TuTh 11:00am - 12:15pm<br>Th 8:00am - 8:50am | Seats (Total: 35)<br>PHY 1410<br>PHY 1204 | Discussion |
| 0202 | Bei Lok Hu<br>TuTh 11:00am - 12:15pm<br>Tu 2:00pm - 2:50pm | Seats (Total: 35)<br>PHY 1410<br>PHY 1204 | Discussion |
| 0203 | Bei Lok Hu<br>TuTh 11:00am - 12:15pm<br>W 3:00pm - 3:50pm | Seats (Total: 35)<br>PHY 1410<br>PHY 1219 | Discussion |
| 0204 | Bei Lok Hu<br>TuTh 11:00am - 12:15pm<br>M 4:00pm - 4:50pm | Seats (Total: 35)<br>PHY 1410<br>PHY 1402 | Discussion |
| 0301 | Alberto Belloni<br>MWF 10:00am - 10:50am<br>Th 3:00pm - 3:50pm | Seats (Total: 35)<br>PHY 1410<br>PHY 1402 | Discussion |
| 0302 | Alberto Belloni<br>MWF 10:00am - 10:50am<br>Tu 4:00pm - 4:50pm | Seats (Total: 35)<br>PHY 1410<br>PHY 1219 | Discussion |
| 0303 | Alberto Belloni<br>MWF 10:00am - 10:50am<br>W 12:00pm - 12:50pm | Seats (Total: 35)<br>PHY 1410<br>PHY 0405 | Discussion |
| 0304 | Alberto Belloni<br>MWF 10:00am - 10:50am<br>W 3:00pm - 3:50pm | Seats (Total: 35)<br>PHY 1410<br>PHY 1402 | Discussion |
| FC01 | Aria Heidarian<br>TuTh 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 44)<br>PHY 1204 | |

**PHYS170 Professional Physics Seminar**

*Corequisite: MATH140. Restriction: Must be in Physics program; or must be in Physics-Education program; or permission of instructor.*

*Provides a look at some of the major developments of current interest in physics research and discusses the activities physicists undertake in research, education, industry, government, and other areas of the economy.*

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|---|---|---|
| 0101 | Thomas Gleason<br>W 12:00pm - 12:50pm | Seats (Total: 35)<br>PHY 1402 |
| 0201 | Donna Hammer<br>W 1:00pm - 1:50pm | Seats (Total: 35)<br>PHY 1402 |

**PHYS171** **Introductory Physics: Mechanics**

*Prerequisite: MATH140; or permission of CMNS-Physics department. Credit only granted for: PHYS141, PHYS161, or PHYS171. Additional information: General Education Natural Sciences Lab (DSNL) Course only when taken concurrently with PHYS275.*

*First semester of a three semester sequence for physics majors and those desiring a rigorous preparation in the physical sciences: kinematics, Newton's laws, energy and work, linear and angular momenta.*

Jointly offered with PHYS171H.

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|---|---|---|
| 0201 | James Drake<br>MWF 9:00am - 9:50am<br>Th 9:00am - 9:50am | Seats (Total: 54)<br>PHY 1204<br>PHY 1204 |

**PHYS171H** **Introductory Physics: Mechanics**

(Perm req)

*Prerequisite: MATH140; or permission of CMNS-Physics department. Credit only granted for: PHYS141, PHYS161, or PHYS171. Additional information: General Education Natural Sciences Lab (DSNL) Course only when taken concurrently with PHYS275.*

*First semester of a three semester sequence for physics majors and those desiring a rigorous preparation in the physical sciences: kinematics, Newton's laws, energy and work, linear and angular momenta.*

Jointly offered with PHYS171.

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|---|---|---|
| 0201 | James Drake<br>MWF 9:00am - 9:50am<br>Th 9:00am - 9:50am | Seats (Total: 54)<br>PHY 1204<br>PHY 1204 |

**PHYS172** **Succeeding in Physics: Applications, Resources and Concepts**

(Perm req)

*Corequisite: PHYS171. Restriction: Permission of CMNS-Physics department.*

*Supplemental instruction and support for students taking PHYS171, especially for students with limited high school physics preparation, or who will benefit from extra review and practice of relevant mathematics and physics concepts and skills.*

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|---|---|---|---|
| 0101 | Peter Shawhan<br>Tu 9:30am - 10:45am | Seats (Total: 15)<br>PHY 1219 | |

**PHYS174 Physics Laboratory Introduction**

*Corequisite: MATH140. Recommended: High school physics.*

*Introduces students to the techniques of data gathering and analysis. This course will lay a foundation for higher-level labs in physics and the physical sciences. Students will learn to use laboratory equipment such as calipers, meters, oscilloscopes, and computer interfaces. Techniques of measurement and error analysis will be presented. Students will be taught to use the computer for data analysis with an emphasis on using spreadsheets.*

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|---|---|---|---|
| 0101 | Ki-Yong Kim<br>Tu 10:00am - 11:50am | Seats (Total: 12)<br>PHY 3301 | |
| 0201 | Ki-Yong Kim<br>W 2:00pm - 3:50pm | Seats (Total: 12)<br>PHY 3301 | |

**PHYS235 The Manhattan Project**

*Recommended: Students should be comfortable standard high school algebra II. Credit only granted for: PHYS199M or PHYS235. Formerly: PHYS199M.*

*Introduction to some critical ideas of nuclear physics and a review of some key historical developments starting at the end of the 19th century. Chronological development of nuclear physics from the discovery of radioactivity by Becquerel in 1896 through to the discovery of fission in Germany in 1938 followed by an examination of the programs to develop nuclear weapons in the United States, Britain and Germany. Extensive study of political, ethical, scientific, military, social, and economic issues surrounding the Manhattan Project.*

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|---|---|---|---|
| 0101 | Sylvester Gates<br>MW 4:00pm - 4:50pm<br>M 11:00am - 11:50am | Seats (Total: 25)<br>PHY 1410<br>MTH 0105 | <br><br>Discussion |
| 0103 | Sylvester Gates<br>MW 4:00pm - 4:50pm<br>Th 2:00pm - 2:50pm | Seats (Total: 25)<br>PHY 1410<br>PHY 1204 | <br><br>Discussion |

**PHYS260 General Physics: Electricity, Magnetism and Thermodynamics**

*Prerequisite: PHYS161 and MATH141. Corequisite: PHYS261. Credit only granted for: PHYS142, PHYS260, or PHYS272.*

*Second semester of a three-semester calculus-based general physics course. Electrostatics, magnetism, induction, DC and AC circuits; Maxwell's Equations, heat, and thermodynamics.*

If purchasing used books additional software may be required.

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|---|---|---|---|
| 0101 | Michelle Girvan<br>MW 4:30pm - 5:45pm<br>Tu 11:00am - 11:50am | Seats (Total: 35)<br>PHY 1412<br>PHY 1402 | Discussion |
| 0102 | Michelle Girvan<br>MW 4:30pm - 5:45pm<br>W 10:00am - 10:50am | Seats (Total: 35)<br>PHY 1412<br>PHY 4221 | Discussion |
| 0104 | Michelle Girvan<br>MW 4:30pm - 5:45pm<br>W 9:00am - 9:50am | Seats (Total: 35)<br>PHY 1412<br>PHY 1219 | Discussion |
| 0105 | Michelle Girvan<br>MW 4:30pm - 5:45pm<br>F 3:00pm - 3:50pm | Seats (Total: 35)<br>PHY 1412<br>PHY 1219 | Discussion |
| 0201 | Hailu Gebremariam<br>MW 3:00pm - 4:15pm<br>Tu 8:00am - 8:50am | Seats (Total: 38)<br>PHY 1412<br>PHY 1219 | Discussion |
| 0202 | Hailu Gebremariam<br>MW 3:00pm - 4:15pm<br>M 9:00am - 9:50am | Seats (Total: 38)<br>PHY 1412<br>PHY 1219 | Discussion |
| 0203 | Hailu Gebremariam<br>MW 3:00pm - 4:15pm<br>Tu 11:00am - 11:50am | Seats (Total: 38)<br>PHY 1412<br>PHY 1219 | Discussion |
| 0204 | Hailu Gebremariam<br>MW 3:00pm - 4:15pm<br>F 2:00pm - 2:50pm | Seats (Total: 38)<br>PHY 1412<br>PHY 0405 | Discussion |
| 0205 | Hailu Gebremariam<br>MW 3:00pm - 4:15pm<br>W 12:00pm - 12:50pm | Seats (Total: 38)<br>PHY 1412<br>PHY 4221 | Discussion |

| | | | |
|---|---|---|---|
| 0206 | Hailu Gebremariam<br>MW 3:00pm - 4:15pm<br>M 4:30pm - 5:20pm | Seats (Total: 38)<br>PHY 1412<br>PHY 1219 | <br><br>Discussion |
| 0207 | Hailu Gebremariam<br>MW 3:00pm - 4:15pm<br>W 4:30pm - 5:20pm | Seats (Total: 38)<br>PHY 1412<br>PHY 1219 | <br><br>Discussion |
| 0301 | Michelle Girvan<br>TuTh 12:30pm - 1:45pm<br>M 12:00pm - 12:50pm | Seats (Total: 35)<br>PHY 1412<br>PHY 1402 | <br><br>Discussion |
| 0302 | Michelle Girvan<br>TuTh 12:30pm - 1:45pm<br>W 11:00am - 11:50am | Seats (Total: 36)<br>PHY 1412<br>PHY 1219 | <br><br>Discussion |
| 0303 | Michelle Girvan<br>TuTh 12:30pm - 1:45pm<br>M 2:00pm - 2:50pm | Seats (Total: 35)<br>PHY 1412<br>PHY 1219 | <br><br>Discussion |
| 0304 | Michelle Girvan<br>TuTh 12:30pm - 1:45pm<br>F 1:00pm - 1:50pm | Seats (Total: 35)<br>PHY 1412<br>PHY 1402 | <br><br>Discussion |
| 0305 | Michelle Girvan<br>TuTh 12:30pm - 1:45pm<br>Tu 11:00am - 11:50am | Seats (Total: 35)<br>PHY 1412<br>PHY 0405 | <br><br>Discussion |
| 0501 | Hailu Gebremariam<br>TuTh 3:30pm - 4:45pm<br>F 9:00am - 9:50am | Seats (Total: 38)<br>PHY 1412<br>PHY 1219 | <br><br>Discussion |
| 0502 | Hailu Gebremariam<br>TuTh 3:30pm - 4:45pm<br>F 12:00pm - 12:50pm | Seats (Total: 38)<br>PHY 1412<br>PHY 0405 | <br><br>Discussion |
| 0503 | Hailu Gebremariam<br>TuTh 3:30pm - 4:45pm<br>F 10:00am - 10:50am | Seats (Total: 38)<br>PHY 1412<br>PHY 1219 | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 0504 | Hailu Gebremariam<br>TuTh 3:30pm - 4:45pm<br>W 10:00am - 10:50am | Seats (Total: 38)<br>PHY 1412<br>PHY 1219 | Discussion |
| 0505 | Hailu Gebremariam<br>TuTh 3:30pm - 4:45pm<br>F 1:00pm - 1:50pm | Seats (Total: 38)<br>PHY 1412<br>PHY 0405 | Discussion |

**PHYS260H** **General Physics: Electricity, Magnetism and Thermodynamics**

*Prerequisite: PHYS161 and MATH141. Corequisite: PHYS261. Credit only granted for: PHYS142, PHYS260, or PHYS272.*

*Second semester of a three-semester calculus-based general physics course. Electrostatics, magnetism, induction, DC and AC circuits; Maxwell's Equations, heat, and thermodynamics.*

If purchasing used books additional software may be required.

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|---|---|---|---|
| 0301 | Michelle Girvan<br>TuTh 12:30pm - 1:45pm<br>M 12:00pm - 12:50pm | Seats (Total: 3)<br>PHY 1412<br>PHY 1402 | Discussion |

**PHYS261** **General Physics: Mechanics, Vibrations, Waves, Heat (Laboratory)**

*Prerequisite: PHYS161.*

*Lab includes experiments on mechanics, vibrations, waves, and heat. Engineering majors are expected to take PHYS260 and PHYS261 in the same semester.*

Students must pay a $50.00 laboratory materials fee.

| | | | |
|---|---|---|---|
| 0202 | Andris Skuja<br>Tu 9:00am - 11:20am | Seats (Total: 36)<br>PHY 3219 | Lab |
| 0203 | Andris Skuja<br>W 8:00am - 10:20am | Seats (Total: 36)<br>PHY 3219 | Lab |
| 0204 | Andris Skuja<br>Th 9:00am - 11:20am | Seats (Total: 36)<br>PHY 3219 | Lab |
| 0205 | Andris Skuja<br>M 11:30am - 1:50pm | Seats (Total: 36)<br>PHY 3219 | Lab |
| 0206 | Andris Skuja<br>Tu 11:30am - 1:50pm | Seats (Total: 36)<br>PHY 3219 | Lab |

| | | | |
|---|---|---|---|
| 0207 | Andris Skuja<br>W 11:30am - 1:50pm | Seats (Total: 36)<br>PHY 3219 | Lab |
| 0208 | Andris Skuja<br>Th 11:30am - 1:50pm | Seats (Total: 36)<br>PHY 3219 | Lab |
| 0209 | Andris Skuja<br>M 2:00pm - 4:20pm | Seats (Total: 36)<br>PHY 3219 | Lab |
| 0210 | Andris Skuja<br>Tu 2:00pm - 4:20pm | Seats (Total: 36)<br>PHY 3219 | Lab |
| 0212 | Andris Skuja<br>Th 2:00pm - 4:20pm | Seats (Total: 36)<br>PHY 3219 | Lab |
| 0213 | Andris Skuja<br>M 4:30pm - 6:50pm | Seats (Total: 36)<br>PHY 3219 | Lab |
| 0214 | Andris Skuja<br>Tu 4:30pm - 6:50pm | Seats (Total: 36)<br>PHY 3219 | Lab |
| 0215 | Andris Skuja<br>W 4:30pm - 6:50pm | Seats (Total: 36)<br>PHY 3219 | Lab |
| 0216 | Andris Skuja<br>Th 4:30pm - 6:50pm | Seats (Total: 36)<br>PHY 3219 | Lab |
| 0217 | Andris Skuja<br>M 7:00pm - 9:20pm | Seats (Total: 36)<br>PHY 3219 | Lab |
| 0218 | Andris Skuja<br>Tu 7:00pm - 9:20pm | Seats (Total: 36)<br>PHY 3219 | Lab |
| 0219 | Andris Skuja<br>W 7:00pm - 9:20pm | Seats (Total: 36)<br>PHY 3219 | Lab |
| 0220 | Andris Skuja<br>Th 7:00pm - 9:20pm | Seats (Total: 36)<br>PHY 3219 | Lab |
| 0221 | Andris Skuja<br>F 9:00am - 11:20am | Seats (Total: 36)<br>PHY 3219 | Lab |

**PHYS265** **Introduction to Scientific Programming**

*Prerequisite: PHYS171, PHYS141, or PHYS161; or must have scored 3 or higher on AP PHYS C Mechanics exam. Credit only granted for: PHYS165 or PHYS265. Formerly: PHYS165.*

*Introduction to scientific programming with python. Basic data types, sequences, input/output, and program control flow structures. Evaluation and plotting of mathematical functions and data. Statistical interpretation of data, and fitting of data to models. Introduction to numerical methods including integration, solutions of ordinary differential equations, and linear algebra. Extensive use of the numpy, matplotlib, and scipy packages.*

| | | | |
|---|---|---|---|
| 0101 | Gregory Sullivan<br>TuTh 2:00pm - 3:15pm | Seats (Total: 40)<br>ESJ 2309 | |

**PHYS270** **General Physics: Waves, Optics, Relativity and Modern Physics**

*Prerequisite: PHYS261, MATH241, and PHYS260. Corequisite: PHYS271.*

*Third semester of a three-semester calculus-based general physics course. Waves, sound, electromagnetic waves, optics, special theory of relativity, and modern physics.*

If purchasing used books additional software may be required.

| | | | |
|---|---|---|---|
| 0101 | Hailu Gebremariam<br>TuTh 5:00pm - 6:15pm<br>Th 2:00pm - 2:50pm | Seats (Total: 38)<br>PHY 1410<br>PHY 0405 | <br><br>Discussion |
| 0102 | Hailu Gebremariam<br>TuTh 5:00pm - 6:15pm<br>Th 4:00pm - 4:50pm | Seats (Total: 38)<br>PHY 1410<br>PHY 0405 | <br><br>Discussion |
| 0103 | Hailu Gebremariam<br>TuTh 5:00pm - 6:15pm<br>W 9:00am - 9:50am | Seats (Total: 38)<br>PHY 1410<br>PHY 0405 | <br><br>Discussion |
| 0301 | Anson Hook<br>MWF 11:00am - 11:50am<br>W 1:00pm - 1:50pm | Seats (Total: 35)<br>PHY 1410<br>PHY 1219 | <br><br>Discussion |
| 0302 | Anson Hook<br>MWF 11:00am - 11:50am<br>M 2:00pm - 2:50pm | Seats (Total: 35)<br>PHY 1410<br>MTH 0106 | <br><br>Discussion |

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|---|---|---|---|
| 0303 | Anson Hook<br>MWF 11:00am - 11:50am<br>M 1:00pm - 1:50pm | Seats (Total: 35)<br>PHY 1410<br>PHY 0405 | <br><br>Discussion |
| 0304 | Anson Hook<br>MWF 11:00am - 11:50am<br>F 3:00pm - 3:50pm | Seats (Total: 35)<br>PHY 1410<br>PHY 0405 | <br><br>Discussion |

**PHYS271** **General Physics: Electrodynamics, Light, Relativity and Modern Physics (Laboratory)**

*Prerequisite: PHYS261. Corequisite: PHYS270.*

*Lab includes experiments on ac circuits, magnetism, light and modern physics. PHYS270 and PHYS271 (lab) must be taken in the same semester.*

Students must pay a $50.00 laboratory materials fee.

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|---|---|---|---|
| 0102 | Andris Skuja<br>M 3:00pm - 5:50pm | Seats (Total: 36)<br>PHY 3213 | <br>Lab |
| 0103 | Andris Skuja<br>M 6:00pm - 8:50pm | Seats (Total: 36)<br>PHY 3213 | <br>Lab |
| 0104 | Andris Skuja<br>W 4:00pm - 6:50pm | Seats (Total: 36)<br>PHY 3213 | <br>Lab |
| 0106 | Andris Skuja<br>Tu 1:00pm - 3:50pm | Seats (Total: 36)<br>PHY 3213 | <br>Lab |
| 0117 | Andris Skuja<br>Th 11:00am - 1:50pm | Seats (Total: 36)<br>PHY 3213 | <br>Lab |
| 0118 | Andris Skuja<br>Th 2:00pm - 4:50pm | Seats (Total: 36)<br>PHY 3213 | <br>Lab |

**PHYS272** **Introductory Physics: Fields**

*Prerequisite: PHYS161 or PHYS171; and MATH141; and must have completed or be concurrently enrolled in MATH241. Credit only granted for: PHYS142, PHYS260, or PHYS272.*

*Second semester of a calculus based general physics course. Universal gravitation, electric and magnetic fields and potentials, simple circuits, Maxwell's equations in integral form. Continues the application of mathematics to conceptual models, now with more abstract components.*

Jointly offered with PHYS 272H.

| | | |
|---|---|---|
| 0201 | Eun-Suk Seo | Seats (Total: 49) |
| | TuTh 12:30pm - 1:45pm | PHY 1402 |
| | F 12:00pm - 12:50pm | PHY 1402 |

**PHYS272H** **Introductory Physics: Fields**

*Prerequisite: PHYS161 or PHYS171; and MATH141; and must have completed or be concurrently enrolled in MATH241. Credit only granted for: PHYS142, PHYS260, or PHYS272.*

*Second semester of a calculus based general physics course. Universal gravitation, electric and magnetic fields and potentials, simple circuits, Maxwell's equations in integral form. Continues the application of mathematics to conceptual models, now with more abstract components.*

For general honors students only. Jointly offered with PHYS 272.

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|---|---|---|
| 0201 | Eun-Suk Seo | Seats (Total: 49) |
| | TuTh 12:30pm - 1:45pm | PHY 1402 |
| | F 12:00pm - 12:50pm | PHY 1402 |

**PHYS273** **Introductory Physics: Oscillations and Waves**

*Prerequisite: MATH241 and PHYS272; and must have completed or be concurrently enrolled in PHYS274, MATH243 or equivalent.*

*Mechanical and electrical oscillators, including damped and driven systems; coupled oscillators and normal modes; Fourier series and Fourier transforms; the classical wave equation, traveling and standing waves; reflection and transmission; Maxwell's equations in differential form; physical optics. Extensive use of complex variables.*

Jointly offered with PHYS 273H.

| | | |
|---|---|---|
| 0101 | Erin Sohr, Abolhassan Jawahery | Seats (Total: 68) |
| | Tu 12:30pm - 1:45pm | PHY 1201 |
| | Th 12:30pm - 1:45pm | PHY 1201 |
| | M 2:00pm - 2:50pm | PHY 1201 |

**PHYS273H** **Introductory Physics: Oscillations and Waves**

*Prerequisite: MATH241 and PHYS272; and must have completed or be concurrently enrolled in PHYS274, MATH243 or equivalent.*

*Mechanical and electrical oscillators, including damped and driven systems; coupled oscillators and normal modes; Fourier series and Fourier transforms; the classical wave equation, traveling and standing waves; reflection and transmission; Maxwell's equations in differential form; physical optics. Extensive use of complex variables.*

For general honors students only. Jointly offered with PHYS 273.

| | | | |
|---|---|---|---|
| 0101 | Erin Sohr, Abolhassan Jawahery<br>Tu 12:30pm - 1:45pm<br>Th 12:30pm - 1:45pm<br>M 2:00pm - 2:50pm | Seats (Total: 68)<br>PHY 1201<br>PHY 1201<br>PHY 1201 | |

**PHYS275** **Experimental Physics I: Mechanics and Waves**

(Perm req)

*Prerequisite: Must have completed or be concurrently enrolled in PHYS171 or PHYS161. Additional information: General Education Natural Sciences Lab (DSNL) Course only when taken concurrently with PHYS171 or PHYS161.*

*A first course for physics majors and interested engineering students introducing the methods of experimental science. Students learn to identify various statistical data distributions, carry out rigorous uncertainty analysis, and test whether a given theoretical model adequately describes the observed phenomena. These concepts are applied to sophisticated physical systems that exhibit complex behavior and can yield remarkably precise and accurate results. Experiments are chosen from the areas of mechanics and waves.*

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|---|---|---|---|
| 0101 | Anwar Bhatti<br>MW 2:00pm - 3:50pm | Seats (Total: 15)<br>PHY 3104 | Lab |
| 0201 | Anwar Bhatti<br>MW 4:00pm - 5:50pm | Seats (Total: 15)<br>PHY 3104 | Lab |
| 0301 | Anwar Bhatti<br>TuTh 2:00pm - 3:50pm | Seats (Total: 15)<br>PHY 3104 | Lab |
| 0501 | Anwar Bhatti<br>TuTh 4:00pm - 5:50pm | Seats (Total: 15)<br>PHY 3104 | Lab |

**PHYS276** **Experimental Physics II: Electricity and Magnetism**

(Perm req)

*Prerequisite: PHYS272 and PHYS275.*

*Second course in the three semester introductory sequence. Methods and rationale of experimental physics. Experiments chosen from the fields of electricity and magnetism including electrostatics, magnetostatics, magnetic induction, AC circuits.*

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|---|---|---|---|
| 0101 | Brian Clark<br>MW 1:00pm - 2:50pm | Seats (Total: 12)<br>PHY 3203 | Lab |

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|---|---|---|---|
| 0201 | Brian Clark<br>MW 3:00pm - 4:50pm | Seats (Total: 14)<br>PHY 3203 | <br>Lab |
| 0301 | Simone-Gunde Kulin<br>TuTh 9:00am - 10:50am | Seats (Total: 14)<br>PHY 3203 | <br>Lab |
| 0401 | Simone-Gunde Kulin<br>MW 9:00am - 10:50am | Seats (Total: 12)<br>PHY 3203 | <br>Lab |

**PHYS299** **Special Problems in Physics**

(Perm req)

*Research or special study to complement courses taken elsewhere which are not fully equivalent to those in departmental requirements. Credit according to work done.*

**Contact department for information to register for this course.**

**PHYS299E** **Special Problems in Physics; Developing Essential Research Skills**

(Perm req)

*Research or special study to complement courses taken elsewhere which are not fully equivalent to those in departmental requirements. Credit according to work done.*

Introduces students to the skills needed to become successful researchers. The course includes research experience, an introduction to programming, scientific reading and writing, presentation development and formal poster presentation.

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|---|---|---|
| 0101 | Donna Hammer<br>W 6:00pm - 7:15pm | Seats (Total: 10)<br>PHY 1309 |

**PHYS299R** **Special Problems in Physics; General Physics**

*Research or special study to complement courses taken elsewhere which are not fully equivalent to those in departmental requirements. Credit according to work done.*

**Contact department for information to register for this course.**

**PHYS299W** **Special Problems in Physics; Workforce Skills Development for Physics Undergraduates**

(Perm req)

*Research or special study to complement courses taken elsewhere which are not fully equivalent to those in departmental requirements. Credit according to work done.*

Prerequisites: PHYS171 or permission of instructor Restriction: Intended for Physics Majors Supports students navigating opportunities in the workforce. Building self-confidence through skills assessments, identifying potential career paths, and learning effective job search strategies. Students will connect with professionals across industry to grow their network, build resumes, and conduct mock interviews. Includes mentoring and developing awareness of workforce diversity issues.

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|---|---|---|---|
| 0101 | Donna Hammer, Stephanie Williams<br>Th 12:00pm - 1:50pm | Seats (Total: 10)<br>PHY 1309 | |

**PHYS313** **Electricity and Magnetism I**

*Prerequisite: MATH241, PHYS273, and one of the following: PHYS274, MATH240, MATH243, MATH246, or equivalent courses.*

*A first course in electricity and magnetism at an advanced level. Electrostatics; solutions to the Laplace and Poisson equations in cartesian and spherical coordinates; electric fields in matter; and magnetostatics. Study of boundary value problems and extensive use of vector calculus.*

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|---|---|---|---|
| 0101 | Victor Yakovenko<br>TuTh 12:30pm - 1:45pm<br>F 12:00pm - 12:50pm | Seats (Total: 78)<br>IRB 1116<br>IRB 1116 | |

**PHYS331** **Physics for Life Sciences I**

*Prerequisite: CHEM131; and (MATH131 or MATH136); and (BSCI160 and BSCI161; or BSCI106); and (BSCI170 and BSCI171; or BSCI105). Or students who have taken courses with comparable content may contact the department. Credit only granted for: PHYS121, PHYS131 or PHYS 331.*

*The first part of a two-semester course in general physics specifically oriented towards applications relevant for students in biology and pre-medical programs. The course covers basic mechanics including forces and energy, properties of matter, and thermodynamics done in authentic biological contexts.*

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|---|---|---|---|
| ESG1 | Nidhi Verma<br>Class time/details on ELMs<br>Tu 2:00pm - 5:00pm | Seats (Total: 16)<br>ONLINE<br>BLD4 5322 | Lab |
| | *Registration is restricted to Biological Sciences - Shady Grove majors.* | | |
| ESG2 | Nidhi Verma<br>Class time/details on ELMs<br>Th 2:00pm - 5:00pm | Seats (Total: 12)<br>ONLINE<br>BLD4 5322 | Lab |
| | *Registration is restricted to Biological Sciences - Shady Grove majors.* | | |

**PHYS360** **Introduction to Quantum Mechanics: a Linear Algebra Approach**

*Prerequisite: MATH240, MATH243, MATH461, ENEE290 or PHYS274; or permission of instructor. Additional information: Does not satisfy a requirement for a physics major or minor.*

*Introduction to quantum mechanics from a linear algebra perspective with a focus on low-dimensional Hilbert spaces. Includes review of relevant math topics, e.g., complex numbers, matrices, vector spaces, and basic differential equations. Appropriate for computer scientists and mathematicians without previous coursework in physics.*

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|---|---|---|---|
| 0101 | Robert Hilborn<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>HBK 1108 | |

**PHYS371** **Modern Physics**

*Prerequisite: PHYS273 and PHYS274. Corequisite: PHYS373. Credit only granted for: PHYS371 or PHYS420. Additional information: This course is intended primarily for physics and astronomy majors.*

*Introduces students to special relativity, thermodynamics and quantum mechanics at an intermediate level.*

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|---|---|---|---|
| 0101 | Chandra Turpen<br>MWF 11:00am - 11:50am | Seats (Total: 70)<br>BPS 1243 | |

**PHYS373** **Mathematical Methods for Physics II**

*Prerequisite: PHYS273 and PHYS274.*

*A second course in mathematical methods for physics. Topics include introduction to ordinary differential equations, partial differential equations, and complex analysis.*

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|---|---|---|---|
| 0101 | Alexander Philippov<br>TuTh 9:30am - 10:45am | Seats (Total: 44)<br>HBK 0109 | |

**PHYS375** **Experimental Physics III: Electromagnetic Waves, Optics and Modern Physics**

(Perm req)

*Prerequisite: PHYS276 and PHYS273.*

*Third course in the three-semester introductory sequence. Methods and rationale of experimental physics. Experiments chosen from the areas of electromagnetic waves, optics and modern physics.*

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|---|---|---|---|
| 0101 | Wendell Hill<br>MW 2:00pm - 2:50pm<br>M 3:00pm - 5:50pm | Seats (Total: 16)<br>PHY 1402<br>PHY 3115 | <br><br>Lab |
| 0103 | Wendell Hill<br>MW 2:00pm - 2:50pm<br>Tu 3:00pm - 5:50pm | Seats (Total: 14)<br>PHY 1402<br>PHY 3115 | <br><br>Lab |

**PHYS386** **Experiential Learning**

(Perm req)

**Contact department for information to register for this course.**

**PHYS389** **Undergraduate Thesis Research**

(Perm req)

*Independent directed research and study on a topic selected by the student in consultation with his or her advisor. Final written thesis and oral defense will be expected.*

**Contact department for information to register for this course.**

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**PHYS398** **Independent Studies Seminar**

(Perm req)

*Credit according to work done. Enrollment is limited to students admitted to the independent studies program in physics.*

**Contact department for information to register for this course.**

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**PHYS399** **Special Problems in Physics**

(Perm req)

*Selected advanced experiments. (Will be given with sufficient demand.)*

**Contact department for information to register for this course.**

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**PHYS399C** **Special Problems in Physics; Physics STEM Seminar**

*Selected advanced experiments. (Will be given with sufficient demand.)*

**Contact department for information to register for this course.**

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**PHYS399D** **Special Problems in Physics; Physics STEM Seminar II**

(Perm req)

*Selected advanced experiments. (Will be given with sufficient demand.)*

**Contact department for information to register for this course.**

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**PHYS399E** **Special Problems in Physics; Physics STEM Seminar III**

(Perm req)

*Selected advanced experiments. (Will be given with sufficient demand.)*

**Contact department for information to register for this course.**

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**PHYS399K** **Special Problems in Physics**

*Selected advanced experiments. (Will be given with sufficient demand.)*

**Contact department for information to register for this course.**

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**PHYS399O** **Special Problems in Physics; Introduction to Computational Fourier Optics**

*Selected advanced experiments. (Will be given with sufficient demand.)*

Prerequisites: (PHYS375 or ENEE381 or ENEE382) and (PHYS165 or PHYS265 or ENEE150) or equivalent. Computational methods (Fourier Optics) for advanced optical modeling. Implement algorithms in Python3 or MATLAB, focusing on physics and mathematics. Explore experimental considerations and plotting schemes. Simulate telescope or laser cavity systems for understanding and improvement recommendations. Skeleton code provided to allow focus on key calculations and interpretation.

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|---|---|---|---|
| 0101 | Thomas Antonsen, Benjamin Schreyer<br>F 11:00am - 11:50am | Seats (Total: 10)<br>PHY 1219 | |

**PHYS401** **Quantum Physics I**

*Prerequisite: PHYS371; and (PHYS313 or PHYS373).*

*Introduces some quantum phenomena leading to wave-particle duality. Schroedinger theory for bound states and scattering in one dimension. One-particle Schroedinger equation and the hydrogen atom.*

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| 0101 | Kara Hoffman, Phoebe Hamilton<br>MW 10:00am - 11:15am<br>F 10:00am - 10:50am | Seats (Total: 68)<br>PHY 1201<br>ESJ 0215 | |

**PHYS402** **Quantum Physics II**

*Prerequisite: PHYS401.*

*Applications of quantum mechanics to atomic, molecular, and solid state systems. Addition of angular momenta, multiparticle states, perturbation theory and other approximation techniques, scattering, and symmetries.*

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|---|---|---|---|
| 0101 | Victor Galitski<br>MWF 10:00am - 10:50am<br>Contact instructor or department for details. | Seats (Total: 49)<br>PHY 1402 | |

**PHYS404** **Introduction to Statistical Thermodynamics**

*Prerequisite: PHYS371 or PHYS420.*

*Introduction to basic concepts in thermodynamics and statistical mechanics.*

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|---|---|---|---|
| 0101 | Nathan Schine, Paulo Bedaque<br>WF 9:00am - 9:50am<br>M 9:00am - 9:50am | Seats (Total: 54)<br>PHY 4221<br>ESJ 1215 | |

**PHYS405** **Advanced Experiments**

(Perm req)

*Prerequisite: PHYS375. Restriction: Must be in a major within CMNS-Physics department.*

*Advanced laboratory techniques. Selected experiments from many fields of modern physics. Emphasis on self-study of the phenomena, data analysis, and presentation in report form.*

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|---|---|---|---|
| 0101 | Simone-Gunde Kulin, Shourya Mukherjee<br>W 12:00pm - 12:50pm<br>TBA | Seats (Total: 5)<br>PHY 1219<br>PHY 3112 | <br>Lab<br>Lab |

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|---|---|---|---|
| 0201 | Shourya Mukherjee, Min Ouyang | Seats (Total: 5) | |
| | W 12:00pm - 12:50pm | PHY 1219 | Lab |
| | TBA | PHY 3112 | Lab |

**PHYS406** **Experimental Research Development**

(Perm req)

*Prerequisite: PHYS375. Restriction: Permsission of CMNS-Physics department. Additional information: The student is expected to work on the project for approximately 9 hours per week in a standard semester or a total of 135 hours in a non-standard semester. PHYS406 may not be used to satisfy an advanced physics elective.*

*Part I of a two-semester, independent, experimental research project supervised by a faculty mentor. The student participates significantly in experimental design, set-up, and collection and analysis of real, physical data, including the evaluation of experimental uncertainties. The student maintains a lab notebook and completes an end-of-semester progress report.*

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|---|---|---|
| 0101 | Carter Hall | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**PHYS407** **Undergraduate Experimental Research**

(Perm req)

*Prerequisite: PHYS499 and PHYS375; and permission of CMNS-Physics department. Restriction: Must be in a major within CMNS-Physics department; and senior standing.*

*Students develop and complete an independent, experimental research project with a professor in the Physics Department. The project should be a continuation of work done in PHYS499A. To obtain permission, students must submit a proposal describing the experimental work to be completed and this proposal must be approved by their faculty mentor, the associate chair for undergraduate education and the chair of the laboratory committee. Students must maintain a lab notebook, give an oral presentation and complete a written report on their research that includes data and error analysis.*

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|---|---|---|
| 0101 | Carter Hall | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**PHYS410** **Classical Mechanics**

*Prerequisite: PHYS265 and PHYS273; and (MATH243 or MATH246).*

*Theoretical foundations of mechanics with extensive application of the methods. Various mathematical tools of theoretical physics.*

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|---|---|---|---|
| 0101 | Manuel Franco Sevilla | Seats (Total: 55) | |
| | TuTh 11:00am - 12:15pm | PHY 1204 | |
| | Contact instructor or department for details. | | |

**PHYS411** **Intermediate Electricity and Magnetism**

*Prerequisite: PHYS313 or PHYS373.*

*Foundations of electromagnetic theory, with extensive applications of the methods. Thorough treatment of wave properties of solutions of Maxwell's equations.*

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|---|---|---|
| 0101 | Xiangdong Ji | Seats (Total: 54) |
| | TuTh 12:30pm - 1:45pm | PHY 4221 |
| | F 12:00pm - 12:50pm | PHY 4221 |

**PHYS413 Electricity and Magnetism II**

*Prerequisite: PHYS313 or PHYS412. Credit only granted for: PHYS411 or PHYS413.*

*The second semester of a two semester course with emphasis on electromagnetic waves, potentials and gauge invariance, and relativistic electrodynamics*

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|---|---|---|
| 0101 | Kaustubh Agashe | Seats (Total: 40) |
| | TuTh 12:30pm - 1:45pm | PHY 1204 |

**PHYS431 Introduction to Solid State Physics**

*Prerequisite: PHYS271, PHYS270, and MATH241. Restriction: Junior standing or higher; and must be in the Engineering: Materials Science program or Physics program. Cross-listed with: ENMA460. Credit only granted for: ENMA460 or PHYS431. Additional information: Materials Engineering students take ENMA460 and Physics students take PHYS431.*

*Classes of materials; introduction to basic ideal and real materials' behavior including mechanical, electrical, thermal, magnetic and optical responses of materials; importance of microstructure in behavior. One application of each property will be discussed in detail.*

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|---|---|---|
| 0101 | You Zhou | Seats (Total: 45) |
| | MW 5:00pm - 6:15pm | BPS 0283 |

**PHYS467 Introduction to Quantum Technology**

*Prerequisite: MATH141 and MATH240; or equivalent. Recommended: Students need not have taken a course on quantum mechanics; however, students should be comfortable with: probability theory, Markov chains, complex numbers, quantum states, measurements, unitary operations, matrix algebra, Pauli matrices, the tensor product, waves, the harmonic oscillator, the quantum harmonic oscillator, and the Schrodinger equation.*

*Investigates the physical systems used to implement quantum computers. Covers basics of atomic clocks, laser interferometers, quantum key distribution, quantum networks, and three types of qubits (ion-based, superconductor-based, and semiconductor-based).*

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|---|---|---|
| 0101 | Alicia Kollar | Seats (Total: 30) |
| | TuTh 9:30am - 10:45am | PHY 1402 |

**PHYS485 Electronic Circuits**

(Perm req)

*Prerequisite: PHYS272 and PHYS276. Restriction: Must be in a major within CMNS-Physics department.*

*Theory and application to experimental physics of modern semiconductor analog and digital circuits. Emphasis on understanding passive and active elements in practical circuits. Topics span the range from simple transistor circuits to microcomputers.*

Additional Note: Jointly offered with PHYS685. Credit only granted for PHYS485 or PHYS685.

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|---|---|---|---|
| 0101 | Sarah Eno<br>M 2:00pm - 2:50pm<br>W 1:00pm - 4:50pm | Seats (Total: 16)<br>PHY 1204<br>PHY 3214 | <br><br>Lab |
| 0102 | Sarah Eno<br>M 2:00pm - 2:50pm<br>Tu 2:00pm - 5:50pm | Seats (Total: 16)<br>PHY 1204<br>PHY 3214 | <br><br>Lab |

**PHYS486** **Machine Learning for Physicists**

(Perm req)

*Prerequisite: PHYS165, and PHYS274 or MATH240, or permission of instructor. Restriction: Permission of the CMNS-Physics department.*

*Survey relevant topics in contemporary machine learning (ML) to develop a conceptual understanding of important techniques and an ability to implement them in practice using python. Linear models: linear and logistic regression, support vector machines and kernel methods. Basic aspects of information theory and probability relevant for ML. Neural networks: architectures (FCN, CNN, RNN, attention and transformers) and initialization schemes (order-chaos transition, information propagation). Optimization algorithms. Neural tangent kernel, infinite limits of neural networks, neural scaling laws. Basic techniques in unsupervised learning including dimensionality reduction and generative models.*

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|---|---|---|
| 0101 | Maissam Barkeshli<br>MW 4:00pm - 5:15pm | Seats (Total: 40)<br>ATL 1113 |

**PHYS488P** **Interdisciplinary Topics in Physics; Science and Global Security**

*Selected interdisciplinary topics of relevance to the physics community.*

Prerequisites: Must have taken one of the following two-course physics sequences: PHYS131 and 132; PHYS141 and PHYS142; PHYS161 and PHYS260; or PHYS171 and PHYS272. Restriction: Must have earned a minimum of 60 credits. Cross-listed with PLCY488P and jointly offered with PHYS688P/PLCY688P. Credit only granted for PLCY488P, PHYS488P, PLCY688P, or PHYS688P. This course examines technologies of modern warfare and intelligence. Topics include the design, production, deployment, and effects of nuclear weapons; ballistic missiles and missile defense; bombers, cruise missiles, hypersonic weapons, and air defense; submarines and anti-submarine warfare; artificial intelligence and autonomous vehicles; satellites and anti-satellite weapons; verification and intelligence technologies; and chemical, biological, and radiological weapons.

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|---|---|---|
| 0101 | Steven Fetter<br>W 4:15pm - 6:45pm | Seats (Total: 10)<br>VMH 1203 |

**PHYS499A** **Special Problems in Physics**

(Perm req)

*Research or special study. Credit according to work done.*

**Contact department for information to register for this course.**

**PHYS499B** **Special Problems in Physics**

(Perm req)

*Research or special study. Credit according to work done.*

**Contact department for information to register for this course.**

**PHYS499V** **Special Problems in Physics; Colloquium for Undergraduate Physics Majors**

(Perm req)

*Research or special study. Credit according to work done.*

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|---|---|---|
| 0101 | Instructor: TBA<br>Th 4:00pm - 6:15pm | Seats (Total: 60)<br>Location: TBA |

**PHYS610** **Mathematical Methods and Their Applications in Classical Mechanics and Electrodynamics I**

(Perm req)

*Prerequisite: Must have an outstanding undergraduate background in physics. Restriction: Permission of CMNS-Physics Department.*

*First course of a two-semester graduate level sequence on classical mechanics, electrodynamics and relativity and the mathematics that underlie these subjects. Mathematical methods will generally be introduced in the context of relevant physical problems.*

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|---|---|---|
| 0101 | Zackaria Chacko<br>TuTh 9:30am - 11:30am | Seats (Total: 65)<br>PHY 1201 |

**PHYS612** **Quantum and Statistical Physics I**

(Perm req)

*Prerequisite: Must have an outstanding undergraduate background in physics. Restriction: Permission of CMNS-Physics Department.*

*First course of a two-semester graduate level sequence on topics in quantum mechanics and statistical mechanics.*

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|---|---|---|
| 0101 | Thomas Cohen<br>MWF 1:00pm - 1:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 65)<br>PHY 1201<br>PHY 1201 |

**PHYS624** **Advanced Quantum Mechanics**

*Prerequisite: PHYS613 or PHYS623.*

*Merging relativity and quantum mechanics using quantum fields, scalar field theory and canonical quantization, continuous and discrete symmetries, perturbation theory and scattering amplitudes, renormalized perturbation theory, Lorentz-group representations and fermionic field theories, massive and massless vector field theories and gauge invariance, quantum electrodynamics.*

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|---|---|---|
| 0101 | Zohreh Davoudi<br>TuTh 11:00am - 12:15pm | Seats (Total: 24)<br>ATL 0201 |

**PHYS626** **Quantum Many-Body Theory II**

*Prerequisite: PHYS612, PHYS613, and PHYS625.*

*Continuation of PHYS625. Functional-integral formulation of quantum field theory. Phase transitions and broken symmetry. Magnetism, superconductivity, and other applications. The renormalization group.*

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|---|---|---|
| 0101 | Jay Sau<br>MW 2:00pm - 3:15pm | Seats (Total: 28)<br>ATL 1109 |

**PHYS675** **Introduction to Relativity, Gravitation and Cosmology**

*Prerequisite: PHYS606 and PHYS601.*

*Review of special relativity, followed by a study of the equivalence principle, curved spacetimes, and Einstein's equations. Selected applications to the solar system, stellar structure, black holes, gravitational waves, and cosmology.*

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|---|---|---|
| 0101 | Theodore Jacobson<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>CCC 1200 |

**PHYS685** **Research Electronics**

(Perm req)

*Prerequisite: An outstanding undergraduate background in physics or permission of the instructor. Restriction: Must not have completed PHYS485. Credit only granted for: PHYS485 or PHYS685.*

*An integrated lecture and laboratory course in electronics with equal emphasis on experimental methods and results and analysis using device models and up-to-date mathematical and numerical tools. Experiments and analysis of circuits with passive and single active devices form the background for the study of operational amplifiers, digital integrated circuits and systems, and microcomputers. The general topics of impedance matching, frequency response, feedback, interfacing and the extraction of signal from noise are stressed.*

Additional Note: Jointly offered with PHY485. Credit only granted for PH YS685or PHYS485.

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|---|---|---|---|
| 0101 | Sarah Eno<br>M 2:00pm - 2:50pm<br>W 1:00pm - 4:50pm | Seats (Total: 16)<br>PHY 1204<br>PHY 3214 | <br><br>Lab |
| 0102 | Sarah Eno<br>M 2:00pm - 2:50pm<br>Tu 2:00pm - 5:50pm | Seats (Total: 16)<br>PHY 1204<br>PHY 3214 | <br><br>Lab |

**PHYS688P** **Interdisciplinary Topics in Physics; Science, Technology, and National Security**

*Selected interdisciplinary topics of relevance to the physics community.*

Cross-listed with PLCY688P and jointly offered with PHYS488P/PLCY488P. Credit only granted for PLCY488P, PHYS488P, PLCY688P, or PHYS688P. This course examines technologies of modern warfare and intelligence. Topics include the design, production, deployment, and effects of nuclear weapons; ballistic missiles and missile defense; bombers, cruise missiles, hypersonic weapons, and air defense; submarines and anti-submarine warfare; artificial intelligence and autonomous vehicles; satellites and anti-satellite weapons; verification and intelligence technologies; and chemical, biological, and radiological weapons. The grade will be determined by weekly problem sets and a take-home final exam. Knowledge of physics at the PHYS 141/142 level helpful but not essential.

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| 0101 | Steven Fetter<br>W 4:15pm - 6:45pm | Seats (Total: 15)<br>VMH 1203 | |

**PHYS709** **Seminar in General Physics; Statistical Physics**

Cross-listed with CHPH709B.

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|---|---|---|---|
| 0101 | Pratyush Tiwary<br>Tu 1:15pm - 2:30pm | Seats (Total: 30)<br>IPT 1116 | |

**PHYS715** **Chaotic Dynamics**

*Prerequisite: PHYS601.*

*Theory and applications of chaos in dynamical systems including such topics as strange attractors, Lyapanov exponents, quasiperiodicity, period doubling, intermittency, crises, fractal basin boundaries, chaotic scattering, KAM tori, and quantum chaos.*

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|---|---|---|
| 0101 | Daniel Lathrop | Seats (Total: 30) |
| | TuTh 2:00pm - 3:15pm | PHY 4221 |

**PHYS728J** **Seminar in Atomic and Molecular Physics; JQI Seminar**

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|---|---|---|
| 0101 | Steven Rolston | Seats (Total: 60) |
| | M 11:00am - 12:50pm | ATL 2400 |

**PHYS738** **Seminar in Experimental Solid State Physics; Quantum Mechanical Many-Body Problems**

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|---|---|---|
| 0101 | Johnpierre Paglione | Seats (Total: 15) |
| | Th 2:00pm - 3:50pm | PHY 1410 |

**PHYS739** **Seminar in Theoretical Solid State Physics; Quantum Mechanical Many-Body Problems**

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|---|---|---|
| 0101 | Sankar Das Sarma | Seats (Total: 15) |
| | Tu 11:00am - 12:15pm | PSC 3150 |

**PHYS749** **Seminar in Theoretical Nuclear Physics**

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|---|---|---|
| 0101 | Xiangdong Ji | Seats (Total: 20) |
| | W 4:00pm - 6:00pm | EGR 3114 |

**PHYS758E** **Seminar in Elementary Particles and Quantum Field Theory; Seminar in Elementary Particles and Quantum Field Theory**

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|---|---|---|
| 0101 | Manuel Franco Sevilla | Seats (Total: 25) |
| | W 4:00pm - 5:50pm | PSC 3150 |

**PHYS759** **Seminar in Elementary Particles and Quantum Field Theory**

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|---|---|---|
| 0101 | Kaustubh Agashe | Seats (Total: 15) |
| | M 3:00pm - 4:40pm | PSC 3150 |

**PHYS769** **Seminar in Plasma Physics**

Class will meet in ERF 1207.

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|---|---|---|
| 0101 | William Dorland, James Drake | Seats (Total: 20) |
| | W 4:00pm - 5:15pm | HBK 0123 |

**PHYS778** **Seminar in Space and Cosmic Ray Physics**

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|---|---|---|
| 0101 | Eun-Suk Seo | Seats (Total: 20) |
| | M 4:30pm - 5:45pm | CHE 2116 |

**PHYS786** **Machine Learning for Physicists**

*Survey relevant topics in contemporary machine learning (ML) to develop a conceptual understanding of important techniques and an ability to implement them in practice using python. Linear models: linear and logistic regression, support vector machines and kernel methods. Basic aspects of information theory and probability relevant for ML. Neural networks: architectures (FCN, CNN, RNN, attention and transformers) and initialization schemes (order-chaos transition, information propagation). Optimization algorithms. Neural tangent kernel, infinite limits of neural networks, neural scaling laws. Basic techniques in unsupervised learning including dimensionality reduction and generative models.*

| | | |
|---|---|---|
| 0101 | Maissam Barkeshli | Seats (Total: 40) |
| | MW 4:00pm - 5:15pm | ATL 1113 |

**PHYS798** **Special Problems in Advanced Physics**

(Perm req)

*Projects or special study in advanced physics.*

**Contact department for information to register for this course.**

**PHYS798B** **Special Problems in Advanced Physics; Physics Colloquium**

*Projects or special study in advanced physics.*

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|---|---|---|
| 0101 | Thomas Cohen | Seats (Total: 142) |
| | Tu 2:00pm - 4:50pm | PHY 1410 |

**PHYS798L** **Special Problems in Advanced Physics; Biophysics**

*Projects or special study in advanced physics.*

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|---|---|---|
| 0101 | Arpita Upadhyaya | Seats (Total: 20) |
| | M 4:00pm - 5:30pm | IPT 1116 |

**PHYS798Q** **Special Problems in Advanced Physics; Seminar in Quantum Physics, Information, and Technology**

*Projects or special study in advanced physics.*

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|---|---|---|
| 0101 | Alexey Gorshkov | Seats (Total: 100) |
| | F 12:00pm - 12:50pm | ATL 2324 |

**PHYS799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**PHYS838C** **Special Topics in Experimental Solid State Physics; Superconductivity, Quantum Materials and Nanoscience Seminar**

*Credit according to work done.*

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| 0101 | Johnpierre Paglione<br>M 4:00pm - 5:50pm | Seats (Total: 50)<br>PHY 1201 |

**PHYS839A** **Special Topics in Theoretical Solid State Physics; Theory of Low Dimensional Systems**

*Credit according to work done.*

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|---|---|---|
| 0101 | Sankar Das Sarma<br>F 4:00pm - 7:00pm | Seats (Total: 20)<br>Location: TBA |

**PHYS859C** **Special Topics in Elementary Particles and Quantum Field Theory; Cosmology and Particle Physics**

*Credit according to work done.*

Prerequisite: Intended for students that have completed a year of quantum field theory (at the level of PHYS 624 and PHYS 851) as well as having some familiarity with the Standard Model and General Relativity. Introduces basic concepts and challenges in early universe cosmology, and discusses important mechanisms that go beyond the Standard Model such as Baryogenesis, Inflation, Dark Matter, and "Cosmological Collider Physics

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|---|---|---|
| 0101 | Raman Sundrum<br>TuTh 2:00pm - 3:15pm | Seats (Total: 15)<br>JMP 1202 |

**PHYS879G** **Special Topics in General Relativity; Gravitational-Wave Physics**

*Credit according to work done.*

An introduction to the theory and phenomenology of gravitational waves, notably from binary systems composed of black holes and neutron stars, but also from phenomena in the Universe dominated by gravity. Prerequisite: To follow the course, students should be already familiar with the material covered in an introductory General Relativity course. It is not necessary to have followed a course in astrophysics and/or cosmology. Recommended: PHYS675.

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|---|---|---|
| 0101 | Alessandra Buonanno<br>**Meets October 14, 2024 - December 9, 2024**<br>M 10:00am - 11:30am<br>Tu 9:30am - 11:00am<br>F 9:30am - 11:00am | Seats (Total: 20)<br><br>ONLINE<br>ONLINE<br>ONLINE |

**PHYS898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**PHYS899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# PLCY Public Policy Fall 2024

**PLCY100** **Foundations of Public Policy**

*A survey course, focusing on public policy institutions and analytical issues as well as on overview of key public policy problems. Students will be introduced to public policy as a discipline, with a brief overview of the actors and institutions involved in the process, and familiarize themselves with the kinds of problems typically requiring public action. The course will examine these problems from a multijurisdictional and multisectoral perspective. Specific policy areas examined include education policy, health policy, economic and budgetary policy, criminal justice policy, environmental policy, and national and homeland security policy. The course should permit students to have broad foundational exposure to the field that will give them a solid base for more advanced courses.*

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|---|---|---|---|
| 0101 | M Apolonia Calderon Cervantes<br>MW 1:00pm - 1:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 25)<br>TMH 0301<br>TLF 0103 | Discussion |
| 0102 | M Apolonia Calderon Cervantes<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 25)<br>TMH 0301<br>JMZ 1122 | Discussion |
| 0103 | M Apolonia Calderon Cervantes<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 25)<br>TMH 0301<br>KEY 0125 | Discussion |
| 0104 | M Apolonia Calderon Cervantes<br>MW 1:00pm - 1:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 25)<br>TMH 0301<br>JMZ 1124 | Discussion |
| 0201 | Jennifer Littlefield<br>TuTh 3:30pm - 4:25pm<br>F 10:00am - 10:50am | Seats (Total: 25)<br>TMH 0301<br>TWS 1107 | Discussion |
| 0202 | Jennifer Littlefield<br>TuTh 3:30pm - 4:25pm<br>F 10:00am - 10:50am | Seats (Total: 25)<br>TMH 0301<br>TWS 0223 | Discussion |

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| 0203 | Jennifer Littlefield<br>TuTh 3:30pm - 4:25pm<br>F 11:00am - 11:50am | Seats (Total: 25)<br>TMH 0301<br>TYD 2109 | Discussion |
| 0204 | Jennifer Littlefield<br>TuTh 3:30pm - 4:25pm<br>F 12:00pm - 12:50pm | Seats (Total: 25)<br>TMH 0301<br>TYD 1108 | Discussion |

**PLCY101** **Great Thinkers on Public Policy**

*Great ideas in public policy, such as equality, efficiency, sovereignty, liberty, bureaucracy, democracy and security are explored through the lens of great thinkers. An introduction to the intellectual foundations of public policy, from ancient theories on collective public action through the more contemporary development of public policy as a discipline. This may start as early as the ancient Greek philosophers and their views on public action through contemporary classics of public policy. At the conclusion of the course, students will have read classic works in the field and will master the key themes that have dominated the intellectual debates about public policy over its history. Emphasis will be on the interdisciplinary foundations of public policy, through examining core disciplinary contributions from economics, political science, management, philosophy, and other relevant disciplines.*

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|---|---|---|
| 0101 | Philip Joyce<br>TuTh 12:30pm - 1:45pm | Seats (Total: 75)<br>ESJ 0215 |

**PLCY201** **Public Leaders and Active Citizens**

*Credit only granted for: PLCY201 or PUAF201.  Formerly: PUAF201.*

*Aims to inspire, teach and engage students in the theory and practice of public leadership from the local to the national to the global level. Students will learn and apply diverse approaches to leadership in a multicultural society while developing an understanding of key frameworks and practices necessary to foster collective action across private, public, and nonprofit sectors. This course will allow students to become informed citizens able to reason critically and persuasively about public matters Students will also explore and assess their own personal values, beliefs, and purpose as they develop their leadership potential.*

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|---|---|---|
| 0101 | Nancy Lineman<br>Tu 5:00pm - 7:30pm | Seats (Total: 70)<br>TWS 1310 |
| 0201 | Gregory Ramsay<br>TuTh 9:30am - 10:45am | Seats (Total: 70)<br>SYM 0200 |
| FC01 | Margaret Brindle<br>TuTh 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 31)<br>ASY 1213 |

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|---|---|---|
| FC02 | Margaret Brindle<br>TuTh 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 31)<br>ASY 1213 |

**PLCY201S** **Public Leaders and Active Citizens**

*Credit only granted for: PLCY201 or PUAF201. Formerly: PUAF201.*

*Aims to inspire, teach and engage students in the theory and practice of public leadership from the local to the national to the global level. Students will learn and apply diverse approaches to leadership in a multicultural society while developing an understanding of key frameworks and practices necessary to foster collective action across private, public, and nonprofit sectors. This course will allow students to become informed citizens able to reason critically and persuasively about public matters Students will also explore and assess their own personal values, beliefs, and purpose as they develop their leadership potential.*

Restricted to freshman students in College Park Scholars Public Leadership program.

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|---|---|---|
| 0101 | Susannah Washburn<br>TuTh 2:00pm - 3:15pm | Seats (Total: 80)<br>CCC 1205 |

**PLCY203** **Liberty and Justice for All: Ethics and Moral Issues in Public Policy**

*Students will broaden their understanding of the moral dimensions of public policy as well as their own individual moral perspective. Discussions will include the ideal of a just society, and the place of liberty and equality in it, while focusing on contemporary theories of ethics and justice. It will develop students' appreciation of the ethical challenges unique to the public service sector while building their skills in ethical analysis and decision-making. We will explore the increasing ethical challenges in a world in which technology, global risks, and societal developments are accelerating faster than our understanding can keep pace. A framework for ethical decision-making underpins the course.*

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|---|---|---|
| 0101 | Anne Kaiser<br>MW 3:00pm - 4:15pm | Seats (Total: 60)<br>SYM 0200 |
| 0201 | Anne Kaiser<br>TuTh 11:00am - 12:15pm | Seats (Total: 60)<br>SKN 0200 |

**PLCY213** **Foundations of Nonprofit Leadership and Social Innovation**

*Through discussions of contemporary trends, challenges and issues, this course provides an introduction to the nonprofit and NGO sectors, social innovation, and the leadership and management skills required to achieve social impact. The course will explore the history, theories, and roles of philanthropy, the nonprofit sector, and social innovation in societies and cultures. Students will be able to demonstrate an understanding of the process and principles of social entrepreneurship and social innovation. Additionally, the course will introduce students to topics in leadership, social innovation, resource development, community mobilization through networks, the role of policy-making in creating change, project management, and overall strategies for achieving social impact. The course will include mini hands-on learning experiences that allow them to apply key learning outcomes.*

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|---|---|---|
| 0101 | Ebonie Johnson Cooper<br>TuTh 11:00am - 12:15pm | Seats (Total: 40)<br>ATL 1114 |
| 0201 | Claire Dunning<br>TuTh 9:30am - 10:45am | Seats (Total: 40)<br>TYD 2109 |

**PLCY214** **Leading and Investing in Social Change: Re-defining and Experimenting with Philanthropy**

*Credit only granted for: PLCY214, PUAF214 or PUAF359I. Formerly: PUAF359I, PUAF214.*

*Defines philanthropy as an exploration of how one develops a vision of the public good and then deploys resources (including donations, volunteers, and voluntary associations) to achieve an impact.*

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| 0101 | Patricia Bory<br>TuTh 2:00pm - 3:15pm<br>*Restricted to students in Carillon Communities. Once registered, students need an electronic stamp from an advisor to drop the course.* | Seats (Total: 65)<br>ESJ 0215 |

**PLCY240** **Ethical, Policy and Social Implications of Science and Technology**

*Restriction: Must be in the Science, Technology, Ethics and Policy minor. Cross-listed with: ENES240. Credit only granted for: ENES240 or PLCY240.*

*Asks students to think about how society should manage complexity, transformation, and uncertainty with an eye on developing a broader sense of ethics and social responsibility. Introduces analytical frameworks, concepts, and data collection techniques that interdisciplinary scholars use to map relationships among science, technology and society and generate important questions about the future of society.*

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|---|---|---|
| 0101 | Timothy Reedy<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>ATL 1434 |
| 0201 | Roan Parrish<br>TuTh 3:30pm - 4:45pm | Seats (Total: 30)<br>EGR 0108 |

**PLCY288L** **Introduction to Public Policy Topics; Law and Public Policy--Organizing and Advocating for Justice**

*Introductory-level special topics focusing on a Public Policy problem or issue area.*

Students will gain a contextual understanding of how policy decisions and legal structures affect different people, as well as the role of law in organizing and advocating for just policy and social change. Students will analyze how structural inequities are shaped by historical, legal, social, and political factors, building on that knowledge to strategize solutions to problems requiring policy reform and systemic change.

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|---|---|---|
| 0101 | Brandi Slaughter | Seats (Total: 25) |
| | TuTh 2:00pm - 3:15pm | TMH 0225 |

**PLCY288Q** **Introduction to Public Policy Topics; Introduction to International Security**

*Introductory-level special topics focusing on a Public Policy problem or issue area.*

Introduces major concepts, debates, and challenges in international security policy. Some of today's problems have existed in various forms for centuries, such as potential conflicts between great powers, violence by governments against their own people and by terrorist organizations, and the disruptive effects of powerful new technology. Some are more recent, such as nuclear deterrence and non-proliferation, humanitarian crises, and human security. And others, including cyber security, drones, and climate change, are the leading edge of future security challenges. Fundamental questions about how to make the world safer will be a major theme of this course.

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|---|---|---|
| 0101 | Devin Entrikin | Seats (Total: 25) |
| | TuTh 5:00pm - 6:15pm | TMH 0225 |

**PLCY300** **Governance: Collective Action in the Public Interest**

*Prerequisite: PLCY100. Restriction: Must be in a major in PLCY-School of Public Policy.*

*Examination of societal responses to public problems, including actions by government, non-profit and private sector actors, as well as civil society. Students will examine the roles of these various actors, as well as the nature of civic responsibility. The course will examine the various stages of the policy process, asking the following questions: How does something get defined as a problem that requires a public policy response? How do we think about what the options are for this response, and how do we choose among them? What are the factors that contribute to successful policy implementation? How do we evaluate the success of public policies? These questionswill be addressed using examples of current public policy problems, and students will be expected to engage in individual and collaborative work to design responses to those problems.*

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|---|---|---|
| 0101 | Niambi Carter | Seats (Total: 45) |
| | TuTh 12:30pm - 1:45pm | TMH 0225 |

**PLCY301** **Sustainability**

*Cross-listed with: AGNR301. Credit only granted for: AGNR301, PUAF301, or PLCY301. Formerly: PUAF301.*

*Designed for students whose academic majors would be enhanced by the complementary study of a widely shared but hard-to-operationalize aspiration: that present choices should preserve or improve future options rather than foreclose or degrade them. How should we understand sustainability? How might we achieve it? How would we know if we had achieved it? And how could sustainability activists of a rising generation lead by example?*

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|---|---|---|
| 0101 | Caroline Boules<br>TuTh 12:30pm - 1:45pm | Seats (Total: 165)<br>MMH 1400 |

**PLCY302** **Examining Pluralism in Public Policy**

*Credit only granted for: PLCY302 or PUAF302. Formerly: PUAF302.*

*Understanding pluralism and how groups and individuals coexist in society is an essential part of the public policy process. This course will examine the ways in which the diverse experiences of race, gender, ethnicity, class, orientation, identity, and religion impact the understanding of and equitable delivery of public policy. The examination of how identity development shapes our understanding of society and influences the decision-making process is central to students' shaping policy that is truly for the people. This course will equip students with the skills needed to analyze pluralism and draw conclusions about the application of various theories to public policy issues.*

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|---|---|---|
| 0101 | Alana Hackshaw<br>TuTh 11:00am - 12:15pm | Seats (Total: 40)<br>SQH 1105 |
| 0301 | Alana Hackshaw<br>TuTh 2:00pm - 3:15pm | Seats (Total: 40)<br>TYD 2102 |
| 0401 | Patrina Clark<br>Th 4:30pm - 7:00pm | Seats (Total: 40)<br>TYD 1132 |

**PLCY303** **Public Economics Raising and Spending the People's Money**

*Prerequisite: ECON200. Restriction: Must be in a major in PLCY-School of Public Policy.*

*Applied course in public finance, including introductions to resource mobilization (including taxation), macroeconomic policy, key public expenditure policies, and government budgetary processes and politics. The course will build on the foundations from ECON 202 to address the specific application of public finance principles to solving public problems. The course will focus on the principles of welfare economics (including market failure), economic principles as applied to particular spending programs and tax choices, and issues and institutions involved in the allocation and management of resources both at a national and subnational level. The focus of the course is on these issues from both a domestic and global perspective.*

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|---|---|---|
| 0101 | Emily Dobson<br>TuTh 9:30am - 10:45am | Seats (Total: 40)<br>ASY 3211 |

**PLCY304** **Evaluating Evidence: Finding Truth in Numbers**

*Prerequisite: STAT100.  Restriction: Must be in a major in PLCY-School of Public Policy.*

*Enables students to understand the research done by others with a sufficiently skeptical eye to allow them to determine whether the findings of the research are valid given the assumptions made and methods used. This will involve, in part, thinking about the various problems in research design or conduct that could lead to faulty conclusions. It will also involve being able to differentiate between credible sources of information and those that are not objective. At the conclusion of the course, students should be able to differentiate objective evidence from political argumentation.*

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|---|---|---|---|
| 0101 | Michael Busse<br>MWF 11:00am - 11:50am<br>F 1:00pm - 1:50pm | Seats (Total: 40)<br>TMH 0225<br>TMH 0225 | <br><br>Discussion |
| 0201 | Michael Busse<br>MWF 12:00pm - 12:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 40)<br>TMH 0225<br>TMH 0225 | <br><br>Discussion |

**PLCY306** **Public Policy Analysis in Action**

*Restriction: Must have earned a minimum of 60 credits; and must be in a major in PLCY-School of Public Policy.*

*Utilizes our unique location in the Washington, D.C. region to create a laboratory within which to analyze local, regional, national and international policy problems. Students will be put into teams and assigned to real and timely policy cases. The course will include meetings and field trips with local leaders in the field, ideally connected to the cases. Student will then expand and apply their use of policy analysis and evaluation skills to define those problems, analyze alternative responses, devise appropriate strategies for implementation, and evaluate the success of the proposed policy and implementation. The course will conclude with team presentations to local leaders and faculty. This distinctive course will serve to prepare students for their client- based senior capstone course.*

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| 0101 | Shanna Pearson<br>TuTh 9:30am - 10:45am | Seats (Total: 40)<br>TMH 0225 | |
| 0201 | Shanna Pearson<br>TuTh 11:00am - 12:15pm | Seats (Total: 40)<br>TMH 0225 | |

**PLCY309** **Internship in Political Institutions: State and Local**

(Perm req)

*Offers students supervised internship placements in state and local political or public policy organizations.*

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| 0101 | Martin Sanders<br>Contact instructor or department for details. | Seats (Total: 30) | |

**PLCY310** **Nonprofit Leadership and Social Innovation in Action**

*Prerequisite: PLCY 213.*

*Furthers students understanding of topics in leadership, social innovation, resource development, community mobilization through networks, and the role of policy making in creating change. This course will further students understanding of the creation and leadership of nonprofits, social ventures, governance and boards; strategic planning and partnerships; advocacy and public policy processes; community outreach; working in teams, effective communications, and cross-sector approaches to scaling up social impact.*

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| 0101 | Selvon Waldron | Seats (Total: 45) |
| | M 6:00pm - 8:30pm | TYD 2109 |

**PLCY311** **Women in Leadership**

*Credit only granted for: PUAF311, PLCY311 or PUAF359W. Formerly: PUAF359W.*

*Examines the role of women in the leadership process including the participation of women as activists, voters, advocates, public leaders and as agents of change through various avenues including, among others, public service (elected and appointed), the media, community service, political organizations, and the nonprofit sector.*

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|---|---|---|
| 0101 | Anne Kaiser | Seats (Total: 30) |
| | Tu 4:15pm - 6:45pm | TMH 0102 |

**PLCY313** **Advocacy in the American Political System**

*Credit only granted for: PUAF313, PLCY313 or PUAF359C. Formerly: PUAF359C.*

*Introduces students to the creation of law through the legislative process with a special focus on the Maryland General Assembly.*

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|---|---|---|
| 0101 | Gerard Evans | Seats (Total: 100) |
| | M 2:00pm - 4:30pm | TMH 0301 |

**PLCY380** **Innovation and Social Change: Do Good Now**

*Credit only granted for: ARHU380, BSOS388B, PLCY388D, or PLCY380. Formerly: PLCY388D.*

*Introduces students to the concept of social innovation while exploring the many mechanisms for achieving social impact. It is team-based, highly interactive and dynamic, and provides an opportunity for students to generate solutions to a wide range of problems facing many communities today. Deepens the students understanding of entrepreneurship and innovation practices by guiding them through the creation and implementation process as applied to a project idea of their choice.*

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|---|---|---|
| 0101 | James Stillwell | Seats (Total: 35) |
| | TuTh 3:30pm - 4:45pm | MMH 1304 |

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|---|---|---|
| 0201 | Katlin Gray<br>TuTh 9:30am - 10:45am | Seats (Total: 35)<br>ESJ 2101 |
| ESG1 | Kisha McNeill<br>Class time/details on ELMs<br>*Restricted to students at Shady Grove.* | Seats (Total: 30)<br>ONLINE |

**PLCY388A** **Special Topics in Public Policy; Child and Family Policy Impact**

*Advanced special topics focusing on an interdisciplinary topic related to Public Policy.*

Jointly offered with FMSC498P. Credit only granted for PLCY388A or FMSC4 98P. For poor and low-income families, federal programs such as Medicaid , Child care, SNAP and child nutrition programs are a lifeline every day. Some programs also have policies that consider more than income eligibility, such as number of hours of work, disability, and immigration status. Budget choices have a significant impact on pol icy intentions. Students will learn about and analyze the major federal programs and federal budgets for these policy areas; understand fro m data the impact of such programs and policies; and be introduced to significant advocacy efforts and considerations that shaped hese po licy decisions.

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|---|---|---|
| 0101 | Brandi Slaughter<br>TuTh 3:30pm - 4:45pm | Seats (Total: 40)<br>TMH 0225 |

**PLCY388B** **Special Topics in Public Policy; Secrets, Spies, and The State: Introduction to the Intelligence Community**

*Advanced special topics focusing on an interdisciplinary topic related to Public Policy.*

This is an introduction to the history, structure, and practices of the US intelligence community (IC). This course will provide students with an understanding of the theory and practice of intelligence, including the intelligence cycle, past and present organization of the intelligence community, and future challenges facing intelligence professionals. The course will also examine the capabilities and limitations of the various intelligence collection disciplines, analytic methodologies, and the relationship between intelligence and policy.

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| 0101 | Lena Andrews<br>TuTh 2:00pm - 3:15pm | Seats (Total: 25)<br>PLS 1115 |

**PLCY388M** **Special Topics in Public Policy; Congressional Investigations and Democratic Governance**

*Advanced special topics focusing on an interdisciplinary topic related to Public Policy.*

Cross-listed with GVPT368M. Credit only granted for PLCY388M or GVPT368M. The course introduces students to the purpose and practice of congressional investigations. Topics covered include: the reach and limits of Congress's constitutional authority to investigate; tools and tactics used in congressional investigations; congressional authority to investigate the executive and judicial branches of government; what constitutes effective oversight; and current challenges to conducting congressional investigations. Class discussion will frame these issues by focusing on the work of the House Select Committee to Investigate the January 6th Attack on the United States Capitol and other high-profile inquiries, featuring video excerpts and personal perspectives from individuals involved with those efforts. Students will engage in experiential and hands-on learning to understand the subject matter.

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|---|---|---|
| 0101 | Kristin Amerling | Seats (Total: 25) |
| | TuTh 5:00pm - 6:15pm | MMH 1304 |

**PLCY388N** **Special Topics in Public Policy; Advancing Justice Through Leadership and Public Service**

*Advanced special topics focusing on an interdisciplinary topic related to Public Policy.*

Must be in the Rawlings Undergraduate Leadership Fellows Program. Students will engage in leadership-based learning and public service projects to examine contemporary issues in public policy. Leadership as a search for meaning, identity and purpose are explored. Major philosophical traditions, from the ancient world to the modern one, are introduced, encouraging students to ground their leadership interests and aspirations in a disciplined process of self-reflection, critical thinking and inquiry. Structured as a lecture and discussion series, this course will develop and apply student's understanding of leadership philosophy, policy, and social justice through active in class participation, simulations, group work, and structured discussion activities.

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| 0101 | Nina Harris | Seats (Total: 25) |
| | W 4:15pm - 6:45pm | TMH 0102 |

**PLCY388V** **Special Topics in Public Policy; Public Policy Challenges in Africa**

*Advanced special topics focusing on an interdisciplinary topic related to Public Policy.*

Introduces major public policy challenges in Africa today and includes a brief review of African history from 1600 through the post-colonial period to provide critical background. Catalyzing economic growth, promoting democratic governance, and reducing armed conflict will be discussed. Also covered are the role of African diasporas and migration in national development, managing the continent's rapid urbanization, and improving service delivery in key areas such as health and education.

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| 0101 | Michael Woldemariam | Seats (Total: 25) |
| | TuTh 2:00pm - 3:15pm | KEY 0125 |

**PLCY399B** **Directed Study in Public Policy; Policy Ambassadors**

(Perm req)

*Guidance for the advanced student capable on interdisciplinary study on special projects under the supervision of faculty.*

As School of Public Policy Ambassadors, students share their experience as SPP students with others through skill-building activities such as: public speaking, event and program planning, personal storytelling, social media, and networking. Ambassadors will burnish their leadership skills as SPP representatives with a specific focus on recruiting prospective students.

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| 0101 | Beatrice DeBelen<br>Contact instructor or department for details.<br>Class time/details on ELMs | Seats (Total: 30)<br>ONLINE |

**PLCY399R** **Directed Study in Public Policy; Independent Research**

(Perm req)

*Guidance for the advanced student capable on interdisciplinary study on special projects under the supervision of faculty.*

**Contact department for information to register for this course.**

**PLCY399T** **Directed Study in Public Policy; Undergraduate Teaching Assistant**

(Perm req)

*Guidance for the advanced student capable on interdisciplinary study on special projects under the supervision of faculty.*

**Contact department for information to register for this course.**

**PLCY400** **Senior Capstone**

(Perm req)

*Prerequisite: PLCY306. Restriction: Permission of PLCY-School of Public Policy; and must have earned a minimum of 90 credits.*

*Public Policy students will take the skills and knowledge gained through their curriculum and apply them through their senior capstone course. Students will work in teams on problems and issues presented by outside clients, with guidance from faculty facilitators and interaction with the clients. Each team will work with the client to address a particular problem and produce a mutually agreed upon outcome. These hands on projects will advance students' understanding of the analytical, leadership, communication and problem solving skills necessary to address today's policy problems while allowing them to gain professional level experience that could contribute to their success in their post UMD endeavors. The course will conclude with an event that allows all teams to present their findings and outcomes to their client while being evaluated by faculty and public policy professionals.*

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|---|---|---|
| 0101 | Martin Sanders<br>Tu 6:00pm - 8:30pm | Seats (Total: 25)<br>JMZ 0205 |
| 0201 | Patrina Clark<br>W 5:00pm - 7:30pm | Seats (Total: 25)<br>JMZ 1120 |

**PLCY401** **Contemporary Issues in Public Policy**

*Restriction: Must have earned a minimum of 90 credits.*

*An integrative course that allows policy students to explore the complexities of the policy-making process from the perspective of specific policy topics. They will learn about and discuss subject- based issues in a seminar format led by faculty and policy experts. Site visits to federal agencies, guest speakers, and round table sessions ensure that students receive a variety of real-world perspectives on their chosen policy area.*

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| 0101 | Tracy Thompson<br>TuTh 2:00pm - 3:15pm<br>*Criminal justice policy.* | Seats (Total: 20)<br>TYD 0102 |
| 0201 | Joshua Itzkowitz Shifrinson<br>M 3:30pm - 6:00pm<br>*US foreign, diplomatic, and defense policy.* | Seats (Total: 20)<br>JMZ 0208 |

**PLCY488P** **Advanced Special Topics in Public Policy; Science and Global Security**

*Advanced special topics for upper level students focusing on topics related to Public Policy.*

Prerequisites: Must have taken one of the following two-course physics sequences: PHYS131 and 132; PHYS141 and PHYS142; PHYS161 and PHYS260; or PHYS171 and PHYS272. Restriction: Must have earned a minimum of 60 credits. Cross-listed with PHYS488P and jointly offered with PHYS688P/PLCY688P. Credit only granted for PLCY488P, PHYS488P, PLCY688P, or PHYS688P. This course examines technologies of modern warfare and intelligence. Topics include the design, production, deployment, and effects of nuclear weapons; ballistic missiles and missile defense; bombers, cruise missiles, hypersonic weapons, and air defense; submarines and anti-submarine warfare; artificial intelligence and autonomous vehicles; satellites and anti-satellite weapons; verification and intelligence technologies; and chemical, biological, and radiological weapons.

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| 0101 | Steven Fetter<br>W 4:15pm - 6:45pm | Seats (Total: 10)<br>VMH 1203 |

**PLCY610** **Quantitative Aspects of Public Policy**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY610 or PUAF610. Formerly: PUAF610.*

*Introduces statistical methods needed for evaluating and choosing among policy options. Topics include probability; decision-making under uncertainty; the organization, interpretation, and visual display of complex data; prediction and inferences about causality; hypothesis testing; and linear and multiple regression. Develops analytical skills and the ability to apply theory to complex, real-world problems.*

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|---|---|---|
| 0101 | Alec Worsnop<br>W 4:15pm - 6:45pm | Seats (Total: 40)<br>TMH 0225 |
| | *This section has optional online discussion sessions, Fridays, 11 a.m - 12:30 p.m.* | |
| 0301 | Alec Worsnop<br>Th 9:15am - 11:45am | Seats (Total: 40)<br>TMH 0102 |
| | *This section has optional online discussion sessions, Fridays, 9:15am - 10:45am.* | |

**PLCY630** **Normative and Political Dimensions of Public Policy**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY630 or PLCY688E. Formerly: PLCY688E.*

*Explores the normative and political dimensions of governance--or policymaking--at the domestic (focusing on the US) and global levels. Policymaking involves a myriad of public and private actors at the local, national, transnational, and global levels that have competing aims and values. Their interaction produces formal and informal policies that affect the international order, interstate relations, subnational dynamics, and individuals. Drawing on theory from multiple disciplines and case examples, the course examines governance at these interrelated levels. Students learn core concepts, debates, and actors involved in policy making, develop tools to identify the causes and consequences of different policies, and build skills to influence public governance. Students also critically analyze how the actors, institutions, and scholarship covered perpetuate systemic racism and other inequities based on gender, class, ethnicity, sexual orientation, religion, dis/ability, etc.*

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|---|---|---|
| 0101 | Catherine Worsnop<br>W 9:15am - 11:45am | Seats (Total: 25)<br>TMH 0102 |
| 0201 | Catherine Worsnop<br>Th 1:30pm - 4:00pm | Seats (Total: 25)<br>TMH 0102 |

**PLCY631** **Governance: Leadership, Management and Accountability**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY631 or PLCY688G. Formerly: PLCY688G.*

*Emphasizes that regardless of technical specialization, public policy practitioners are required to lead people and organizations, manage resources and processes, and be held accountable for their actions. Provides knowledge, insights, skills, and abilities to successfully participate in and contribute to the policy process and lead and manage in line with democratic norms and values. Shows the need to pursue efficiency, effectiveness, and speed while also prioritizing justice, equity, procedural fairness, and due process. Focuses on the "people" side of organizational life, ethical decision-making, and the ability to communicate effectively.*

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| 0101 | Eric Luedtke<br>Th 7:00pm - 9:30pm<br>Class time/details on ELMs | Seats (Total: 25)<br>Location: TBA<br>ONLINE |
| | *Class meets in person on 8/29 and 12/05; all other classes meet online.* | |
| 0201 | Elizabeth Duke<br>Tu 9:15am - 11:45am | Seats (Total: 23)<br>TMH 0102 |

**PLCY640** **Microeconomic and Policy Analysis**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY640 or PUAF640. Formerly: PUAF640.*

*Applies intermediate microeconomic theory to public policy issues: resource allocation by firms and consumers; the response of economic agents to changes in incentives; market allocations in competitive and non-competitive environments; and market failures and government remedies. Uses extended case studies of particular issues in such areas as the environment (acid rain), international trade (tariffs), industry regulation (cable TV), and the provision of public goods (highways).*

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| 0101 | Julio Guzman<br>Tu 4:15pm - 6:45pm | Seats (Total: 30)<br>HBK 1112 |
| | *This section has optional online discussion sessions, Fridays, 1:30pm - 3:00om.* | |
| 0201 | Michael Busse<br>M 1:30pm - 4:00pm | Seats (Total: 38)<br>TMH 0102 |
| | *This section has optional online discussion sessions, Fridays, 11am-12:30pm.* | |

**PLCY641** **Macroeconomics and Policy Analysis**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY641 or PUAF641. Formerly: PUAF641.*

*Studies the behavior of the economy as a whole: the level of national income, unemployment, and inflation; the vulnerability of the U.S. economy to external influences; possible federal influence over the level of economic activity; and the consequences for prices, employment and the U.S. trade deficit. Also examines possible U.S. policy responses to widespread debt crises in developing countries.*

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| 0301 | Uri Dadush<br>W 9:15am - 11:45am | Seats (Total: 30)<br>TYD 2111 |
| | *This section has optional online discussion sessions, Fridays, 9:15am - 10:45am.* | |
| 0401 | John Green<br>W 7:00pm - 9:30pm | Seats (Total: 25)<br>JMZ 0103 |
| | *This section has optional online discussion sessions, Fridays, 11am - 12:30pm.* | |

**PLCY670** **Public Budgeting & Financial Management**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLYC670 or PUAF670. Formerly: PUAF670.*

*Covers how governments raise, spend, borrow, and manage public funds. Reviews federal,state, and local budget processes and introduces analytical techniques including basic spreadsheet skills, evaluating alternative revenue sources, revenue and expenditure forecasting, cost allocation, capital budgeting, cost-benefit analysis, discounting and present value, bond analysis, cash management and intergovernmental finance.*

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|---|---|---|
| 0101 | Juan Martinez Guzman<br>M 4:15pm - 6:45pm | Seats (Total: 30)<br>TMH 0102 |

**PLCY680** **Examining Social Identity and Pluralism in Public Policy**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY680 or PLCY699D. Formerly: PLCY699D.*

*Understanding how groups and individuals develop and coexist in society is an essential part of public policy. Using the classroom as a laboratory, students will explore identity development and how the intersections of race, class, gender, sexual orientation, and other identities shape perceptions that inform decision-making and policy development. From historical scholars to current day movement leaders, this course equips students with tools necessary to critically analyze pluralism, power, and identity; and the skills needed to shape meaningful and equitable public policy and working and civic environments for all.*

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|---|---|---|
| 0101 | Claire Dunning<br>W 1:30pm - 4:00pm | Seats (Total: 25)<br>TMH 0102 |
| 0201 | Michael Woldemariam<br>Tu 4:15pm - 6:45pm | Seats (Total: 25)<br>JMZ 3205 |

**PLCY688F** **Topics in Public Policy; State, Local & Non-Profit Financial Management**

*Special topics in Public Policy.*

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|---|---|---|
| 0101 | Nekeya O'Connor<br>Tu 7:00pm - 9:30pm<br>*Restricted to PLCY majors or permission of instructor.* | Seats (Total: 7)<br>ONLINE |
| PWL1 | Nekeya O'Connor<br>Tu 7:00pm - 9:30pm<br>*Must be in the Nonprofit Management and Leadership (GC), Online. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | Seats (Total: 13)<br>ONLINE |

**PLCY688P** **Topics in Public Policy; Science, Technology, and National Security**

*Special topics in Public Policy.*

Cross-listed with PHYS688P and jointly offered with PHYS488P/PLCY488P. Credit only granted for PLCY488P, PHYS488P, PLCY688P, or PHYS688P. This course examines technologies of modern warfare and intelligence. Topics include the design, production, deployment, and effects of nuclear weapons; ballistic missiles and missile defense; bombers, cruise missiles, hypersonic weapons, and air defense; submarines and anti-submarine warfare; artificial intelligence and autonomous vehicles; satellites and anti-satellite weapons; verification and intelligence technologies; and chemical, biological, and radiological weapons. The grade will be determined by weekly problem sets and a take-home final exam. Knowledge of physics at the PHYS 141/142 level helpful but not essential.

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| 0101 | Steven Fetter<br>W 4:15pm - 6:45pm | Seats (Total: 15)<br>VMH 1203 |

**PLCY688X** **Topics in Public Policy; Human Dignity**

*Special topics in Public Policy.*

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|---|---|---|
| 0101 | Chloe Schwenke<br>M 1:30pm - 4:00pm | Seats (Total: 16)<br>JMZ 1104 |

**PLCY689E** **Public Policy Topics; Program Evaluation and Cost-Benefit Analysis**

*Special Topics in Public Policy.*

Restricted to PLCY majors or by instructor permission.

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| 0101 | Douglas Call<br>M 4:15pm - 6:45pm | Seats (Total: 30)<br>TMH 0225 |

**PLCY689F** **Public Policy Topics; Current Issues in Federal Acquisition**

*Special Topics in Public Policy.*

**Contact department for information to register for this course.**

**PLCY689X** **Public Policy Topics; Performance Management and Leadership**

*Special Topics in Public Policy.*

**Contact department for information to register for this course.**

**PLCY689Y** **Public Policy Topics; Nonprofit Fundraising**

*Special Topics in Public Policy.*

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|---|---|---|
| 0101 | Leslie Jefferson<br>M 7:00pm - 9:30pm | Seats (Total: 10)<br>ONLINE |
| | *Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy.* | |
| PWL1 | Leslie Jefferson<br>M 7:00pm - 9:30pm | Seats (Total: 10)<br>ONLINE |
| | *Must be in the Nonprofit Management and Leadership (GC), Online. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**PLCY689Z** **Public Policy Topics; Strategic Management for NonProfit and Public Organizations**

*Special Topics in Public Policy.*

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|---|---|---|
| 0101 | Robert Sheehan<br>Tu 7:00pm - 9:30pm | Seats (Total: 10)<br>ONLINE |
| | *Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy.* | |
| PWL1 | Robert Sheehan<br>Tu 7:00pm - 9:30pm | Seats (Total: 10)<br>ONLINE |
| | *Must be in the Nonprofit Management and Leadership (GC), Online. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**PLCY690** **Policy Engagement Project**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY690 or PLCY699X. Formerly: PLCY699X.*

*Students apply skills to a real-world public policy or management issue through a policy engagement (capstone) project. Students engage an outside client to define and complete a professional project under the supervision of School faculty. The project utilizes skills and knowledge gained through SPP coursework, expands students' integrative capacity, and serves as a bridge to professional opportunities. In this first half of a two-semester course sequence, students identify a client and problem, scope and define the problem, and draw up a plan of work. They perform background research on the problem, the context and relevant substantive domains. They also develop the research methodology for their project, which could include qualitative, quantitative, mixed methods, or other approaches. Projects vary in substantive focus and may encompass policy analysis, program evaluation, management or organizational studies, or comprehensive literature reviews.*

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|---|---|---|
| 0101 | Douglas Call<br>M 7:00pm - 9:30pm<br>*Evaluation-related social policy projects.* | Seats (Total: 15)<br>TMH 1301 |
| 0201 | Margaret Brindle<br>M 7:00pm - 9:30pm<br>*Social, international, and nonprofit projects.* | Seats (Total: 15)<br>TMH 0225 |
| 0301 | David Backer<br>Th 1:30pm - 4:00pm<br>*International development and security projects.* | Seats (Total: 15)<br>TMH 1301 |
| 0311 | Anand Patwardhan<br>W 1:30pm - 4:00pm<br>*Energy, environment and climate policy, and sustainability.* | Seats (Total: 15)<br>WDS 0104 |
| 0401 | Paul Brown<br>W 1:30pm - 4:00pm<br>*Federal policymaking and policy advocacy, civic engagement, democracy reform projects.* | Seats (Total: 15)<br>TMH 1301 |
| 0521 | Angela Bies<br>Tu 4:15pm - 6:45pm<br>*Management, nonprofit, program evaluation, social policy interests, domestic and comparative international.* | Seats (Total: 15)<br>TMH 1301 |

**PLCY692** **Leadership Principles and Practices**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY692 or PUAF692. Formerly: PUAF692.*

*This course will introduce leadership principles and practices to students by focussing on the theory of leadership, different leadership themes and skills, and discussions with practitioners.*

**Contact department for information to register for this course.**

**PLCY698D** **Selected Topics in Public Affairs; Social Entrepreneurship**

*Special topics that arise in public policy.*

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| 0101 | Bethany Henderson<br>Th 7:00pm - 9:30pm<br>*Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy.* | Seats (Total: 10)<br>ONLINE |

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|---|---|---|
| PWL1 | Bethany Henderson | Seats (Total: 10) |
| | Th 7:00pm - 9:30pm | ONLINE |
| | *Must be in the Nonprofit Management and Leadership (GC), Online. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**PLCY698T** **Selected Topics in Public Affairs; Managing Across Sectors**

*Special topics that arise in public policy.*

Restricted to PLCY majors or instructor permission.

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|---|---|---|
| 0101 | Elizabeth Duke | Seats (Total: 20) |
| | M 9:15am - 11:45am | TMH 0102 |

**PLCY699F** **Selected Topics Public Policy; Ethics of Public Administration**

*Special topics that arise in public policy.*

**Contact department for information to register for this course.**

**PLCY699G** **Selected Topics Public Policy; Leadership in Groups and Organizations**

*Special topics that arise in public policy.*

**Contact department for information to register for this course.**

**PLCY700** **Trade Policy, Geopolitics, Development and Climate**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy.*

*Examines challenges posed for international trade policy by geopolitical rifts, the increased weight of developing nations in the world economy, and climate deterioration. It covers the arguments for and against international trade amid polarized politics; how trade policy is made at the World Trade Organization, in Regional Deals, and in Washington, D.C; how businesses build global supply chains and deal with trade policy uncertainty; the trade policy of China and of developing nations more widely; and the role of trade and of trade policy in the fight against climate change.*

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|---|---|---|
| 0101 | Uri Dadush | Seats (Total: 10) |
| | Th 9:15am - 11:45am | TWS 1107 |

**PLCY711** **Public Management and Leadership**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY711 or PUAF711. Formerly: PUAF711.*

*Reviews the managerial, political, and ethical problems faced by public sector managers and leaders, including setting an organization's goals, obtaining and protecting a program mandate, designing a service delivery system and implementing a new program.*

**Contact department for information to register for this course.**

**PLCY717** **Federal Budgeting: Policy and Process**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY717 or PUAF717. Formerly: PUAF717.*

*Budgeting as a political and administrative instrument of government. Development of budgeting, the multiple uses of the budget, including role in fiscal policy and resource allocation, the roles and relationships of major participants, and effects of resource scarcity on budgeting behavior. Emphasis on the federal level.*

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|---|---|---|
| 0101 | Philip Joyce | Seats (Total: 20) |
| | Tu 4:15pm - 6:45pm | JMZ 2122 |

**PLCY720** **International Security Policy**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY720 or PUAF720. Formerly: PUAF720.*

*Reviews the principal features of international security as currently practiced. Traces the evolution of contemporary policy beginning with the initiation of nuclear weapons programs during World War II. Particular emphasis is given to experience of the United States and Russia, since the historical interaction between these two countries has disproportionately affected the international security conditions that all other countries now experience.*

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|---|---|---|
| 0101 | Nancy Gallagher | Seats (Total: 20) |
| | Th 4:15pm - 6:45pm | TMH 0102 |

**PLCY734** **Foundations of Social Policy**

*Restriction: Must be in a major in PLCY-School of Public Policy. Credit only granted for: PLCY734 or PUAF734. Formerly: PUAF734.*

*Provides an overview of government's role in social policy and the history of the development of federal and state policies with respect to welfare, aging, education, and housing. Analyzes current federal institutions and legislation in the same policy areas and the demographic history of the United States. Develops skills in analytic writing and presentation of descriptive data.*

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|---|---|---|
| 0101 | Niambi Carter | Seats (Total: 25) |
| | Tu 9:15am - 11:45am | HJP 2217 |

**PLCY735** **Health Policy**

*Credit only granted for: PLCY735 or PUAF735. Formerly: PUAF735.*

*Analyzes the origins, history, status, and future of health care as problems in political and economic theory and as puzzles in policy formation. Considers current American reform controversies in the light of several disciplines and in comparison to foreign experiences and structures.*

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|---|---|---|
| 0101 | Robert Sprinkle | Seats (Total: 18) |
| | Th 4:15pm - 6:45pm | TMH 1301 |

**PLCY740** **Public Policy and the Environment**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY740 or PUAF740. Formerly: PUAF740.*

*Surveys of major federal environmental legislation; the development and implementation of laws, and alternative ways of thinking about the relationship between humans and the environment.*

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|---|---|---|
| 0101 | Jarryd Page | Seats (Total: 23) |
| | M 7:00pm - 9:30pm | TMH 0102 |

**PLCY741** **Global Environmental Problems**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY741 or PUAF741. Formerly: PUAF741.*

*Suitability of analytic tools for examining global environmental problems, human overpopulation, land abuse, ozone depletion, climate change, acid rain, loss of biological diversity, the scarcity of food, fresh water, energy and nonfuel mineral resources, and health hazards of pollutants toxic metals and radiation.*

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|---|---|---|
| 0101 | Anand Patwardhan | Seats (Total: 20) |
| | W 9:15am - 11:45am | SKN 1115 |

**PLCY744** **Environment and Development**

*Credit only granted for: PLCY744 or PUAF744. Formerly: PUAF744.*

*Analyzes sustainable development and its conflicting interpretations. The dominant view, as expressed in the World Bank's 1992 World Development Report, is studied, along with some critical responses. Further readings on issues of population, consumption and development indicators.*

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|---|---|---|
| 0101 | Thomas Hilde | Seats (Total: 20) |
| | W 7:00pm - 9:30pm | TMH 0102 |

**PLCY752** **Managing Differences:Resolving Conflict and Negotiating Agreements**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY752 or PUAF752. Formerly: PUAF752.*

*Enhances the student's negotiation and leadership skills for managing differences between individuals and groups. Students study the nature of conflict, learn how to handle two and multiparty conflicts, exerting leadership where there are no hierarchy leaders, and explore the impact of facilitators and mediators on the negotiating process. Blends skill building exercises and theory discussions about the behavior of groups and individuals in groups to understand negotiation dynamics.*

**Contact department for information to register for this course.**

**PLCY780** **The American Foreign Policy-Making Process**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY780 or PUAF780. Formerly: PUAF780.*

*Survey and analysis of the governmental institutions and processes which shape U.S. global engagement on national security and international economic issues. Particular emphasis is given to executive-congressional relations and the broader domestic roots of foreign policy.*

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|---|---|---|
| 0101 | Joshua Itzkowitz Shifrinson<br>Tu 1:30pm - 4:00pm | Seats (Total: 16)<br>TMH 1301 |

**PLCY781** **International Economic Policy**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY781 or PUAF781. Formerly: PUAF781.*

*Issues and choices facing the United States in today's global economy. Primary, but not exclusive, emphasis is given to "competitive interdependence" among advanced industrial societies.*

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|---|---|---|
| 0101 | Julio Guzman<br>M 9:15am - 11:45am | Seats (Total: 30)<br>TYD 2111 |

**PLCY790** **Project Course**

*Restriction: Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy. Credit only granted for: PLCY790 or PUAF790. Formerly: PUAF790.*

*Students work at a sponsoring government agency or private firm researching problem of interest to sponsor and relevant to concentration. Emphasis on problem definition, organizing information, and both oral and written presentation of results.*

**Contact department for information to register for this course.**

**PLCY798A** **Readings in Public Policy**

(Perm req)

*Guided readings for discussions on public policy.*

**Contact department for information to register for this course.**

**PLCY798B** **Readings in Public Policy**

(Perm req)

*Guided readings for discussions on public policy.*

**Contact department for information to register for this course.**

**PLCY798N** **Readings in Public Policy; Energy Economics**

*Guided readings for discussions on public policy.*

Restricted to PLCY majors or by instructor permission.

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|---|---|---|---|
| | 0101 | Jiehong Lou<br>Tu 4:15pm - 6:45pm | Seats (Total: 25)<br>BPS 1228 |

**PLCY798R** **Readings in Public Policy; Quantitative Research Methods and Public Policy**

*Guided readings for discussions on public policy.*

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|---|---|---|---|
| | 0101 | Yueming Qiu<br>Tu 1:30pm - 4:00pm | Seats (Total: 20)<br>TMH 0102 |

**PLCY798V** **Readings in Public Policy; Policy Process Research and Theory**

*Guided readings for discussions on public policy.*

Restricted to PLCY Ph.D students or permission of the instructor.

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|---|---|---|---|
| | 0101 | Shanna Pearson<br>Th 1:30pm - 4:00pm | Seats (Total: 12)<br>TMH 0201 |

**PLCY798Y** **Readings in Public Policy; Nonprofit Management and Leadership**

*Guided readings for discussions on public policy.*

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|---|---|---|---|
| | 0101 | Joannie Tremblay-Boire<br>W 7:00pm - 9:30pm | Seats (Total: 5)<br>ONLINE |
| | | *Must be in a major in PLCY-School of Public Policy; or permission of PLCY-School of Public Policy.* | |
| | PWL1 | Joannie Tremblay-Boire<br>W 7:00pm - 9:30pm | Seats (Total: 15)<br>ONLINE |
| | | *Must be in the Nonprofit Management and Leadership (GC), Online. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**PLCY798Z** **Readings in Public Policy; Qualitative Research Methods and Public Policy**

*Guided readings for discussions on public policy.*

Restricted to PLCY Ph.D students or permission of the instructor.

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|---|---|---|---|
| | 0101 | Peter Reuter<br>M 4:15pm - 6:45pm | Seats (Total: 20)<br>WDS 1131 |

**PLCY898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**PLCY899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# PLSC Plant Sciences Fall 2024

**PLSC112** **Introductory Crop Science**

*Credit only granted for: PLSC101 or PLSC112 and PLSC113. Formerly: PLSC101.*

*Major crop plants including: anatomy, physiology, morphology, history, use, adaptation, culture, improvement and economic importance.*

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|---|---|---|---|
| 0101 | William Phillips | Seats (Total: 100) | |
| | MW 10:00am - 10:50am | PLS 1140 | |
| | Class time/details on ELMs | ONLINE | |

**PLSC113** **Introductory Crop Science Laboratory**

*Corequisite: PLSC112 or permission of the Department of Plant Science and Landscape Architecture. Credit only granted for: PLSC101 or PLSC112 and PLSC113.*

*An introduction to the growth, function and identification of agronomic crops and the environment in which they are produced. This course is designed to complement the lecture material from PLSC 112.*

Students must pay a $50.00 lab materials fee. Some lectures will take place in the Research Greenhouse.

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|---|---|---|---|
| 0101 | William Phillips | Seats (Total: 24) | |
| | M 11:00am - 12:50pm | PLS 1153 | Lab |
| 0102 | William Phillips | Seats (Total: 24) | |
| | W 11:00am - 12:50pm | PLS 1153 | Lab |
| 0103 | William Phillips | Seats (Total: 24) | |
| | W 1:00pm - 2:50pm | PLS 1153 | Lab |
| 0104 | William Phillips | Seats (Total: 24) | |
| | M 1:00pm - 2:50pm | PLS 1153 | Lab |

**PLSC115** **How Safe is Your Salad? The Microbiological Safety of Fresh produce**

*Recommended: PLSC110 and PLSC111; or (PLSC112 and PLSC113); or BSCI105; or (BSCI170 and BSCI171).*

*As food is produced in larger quantities and made to travel longer distances, keeping our food safe in this day and age is an ever growing challenge. This course will focus on the question of what it takes to grow and maintain safe fruits and vegetables, as food travels along the path from the farm to your fork. Food safety of fresh produce will be discussed from the public health, agricultural, economical and policy perspectives.*

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|---|---|---|---|
| 0101 | Shirley Micallef | Seats (Total: 24) | |
| | Tu 11:00am - 12:15pm<br>Th 11:00am - 12:15pm | PLS 1130<br>PLS 1153 | <br>Discussion |

**PLSC201 Plant Structure and Function**

*Prerequisite: Minimum grade of C- in PLSC110 and PLSC111 or (PLSC112 and PLSC113); and minimum grade of C- in CHEM131 and CHEM132.*

*The relationship between plant structure and function and how the environment influences changes in the physiology to control higher plant growth and development are studied. Survey of the organizational structure of plants from the molecular to the morphological level and gain an understanding of how the plant functions to grow and reproduce.*

Some course meetings will be held in the Research Greenhouse Complex.

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|---|---|---|---|
| 0101 | Reuben Tayengwa | Seats (Total: 42) | |
| | MWF 10:00am - 10:50am | PLS 1119 | |

**PLSC203 Plants, Genes and Biotechnology**

*Prerequisite: Minimum grade of C- in BSCI103; or minimum grade of C- in BSCI170 and BSCI171.*

*An overview of the history, genetics, and reproductive mechanisms for agronomic and horticultural plants that examines mechanisms of genetic improvement ranging from traditional plant breeding to tissue culture and genetic engineering. Social and political issues such as germplasm preservation and international intellectual property rights will also be discussed.*

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|---|---|---|---|
| 0101 | Vijay Tiwari | Seats (Total: 23) | |
| | TuTh 2:00pm - 3:15pm | PLS 1162 | |

**PLSC205 Introduction to Turf Science and Management**

*Credit only granted for: PLSC205 or PLSC305. Formerly: PLSC305.*

*Principals of turf science and culture with emphasis on turfgrass anatomy, morphology, and physiology. The role of cultural interventions in achieving specific aesthetic and functional objectives is examined for multiple turf uses. Pest problems typically encountered in turfgrass management are also covered.*

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|---|---|---|---|
| 0101 | Mark Carroll | Seats (Total: 22) | |
| | MWF 1:00pm - 1:50pm<br>Tu 3:00pm - 5:00pm | PLS 1146<br>PBR 1102 | <br>Lab |

**PLSC206** **Plant Structure and Function Laboratory**

*Prerequisite: PLSC201 or permission of instructor .*

*Provide hands-on experience for students who are concurrently taking PLSC201 or other interested students and train students how to collect quantitative data from plants and perform statistical analysis (i.e., Student's t-test and chi-square analysis) of the data using Excel. The students will also have opportunity to access and analyze biological datasets from publicly available sources to build phylogenetic trees and explore gene expression patterns.*

Some course meetings will be held in the Research Greenhouse Complex.

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|---|---|---|---|
| 0101 | Reuben Tayengwa<br>M 3:30pm - 6:15pm | Seats (Total: 21)<br>PLS 1153 | <br>Lab |
| 0102 | Reuben Tayengwa<br>W 3:30pm - 6:15pm | Seats (Total: 21)<br>PLS 1153 | <br>Lab |

**PLSC253** **Woody Plants for Mid-Atlantic Landscapes I**

*Prerequisite: Minimum grade of C- in PLSC110 and PLSC111.*

*A field and laboratory study of trees, shrubs, and vines used in ornamental plantings. Major emphasis is placed on native deciduous plant materials.*

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| 0101 | Karen Petroff<br>WF 12:00pm - 12:50pm<br>F 1:00pm - 3:50pm | Seats (Total: 24)<br>PLS 1140<br>PLS 1140 | <br><br>Lab |
| 0102 | Karen Petroff<br>WF 12:00pm - 12:50pm<br>F 1:00pm - 3:50pm | Seats (Total: 24)<br>PLS 1140<br>PLS 1153 | <br><br>Lab |

**PLSC389** **Internship**

(Perm req)

*Credit will be given for practical work carried out at one or more horticultural, agronomic, landscape industries, botanical gardens, or arboreta under formally arranged internships.*

There will be two required real-time sessions, time to be determined. Prerequisite: Permission of AGNR-Plant Science & Landscape Architecture department. Restriction: Junior standing or higher. And must be in Plant Sciences program; or must be in Landscape Architecture program. Deadline to request permission to sign-up for the course is 6/16/2023. See Dr. Mark Carroll for more information. Credit will be given for practical work carried out at one or more horticultural, agronomic, landscape industries, botanical gardens, or arboreta under formally arranged internships.

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|---|---|---|
| 0101 | Mark Carroll | Seats (Total: 20) |
| | **Meets July 3, 2024 - November 6, 2024** | |
| | Class time/details on ELMs | ONLINE |

**PLSC399** **Special Problems in Plant Science**

(Perm req)

*Research projects in Plant Science including field, greenhouse, laboratory, studio and/or library studies. Research is conducted under the direction of a faculty member.*

**Contact department for information to register for this course.**

**PLSC402** **Sports Turf Management**

*Prerequisite: PLSC305 and PLSC401.*

*Sports turf management, including design, construction, soil modification, soil cultural techniques, pesticide use, fertilization, and specialized equipment.*

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| 0101 | Geoffrey Rinehart | Seats (Total: 10) |
| | TuTh 8:00am - 9:15am | PLS 1158 |

**PLSC404** **Plant and Fungal Metabolism**

*Prerequisite: Minimum grade of C- in BSCI170 and BSCI171; or minimum grade of C- in PLSC201 and PLSC206.*

*An introduction to biochemistry and metabolism in plants and fungi, covering the biosynthesis of compartments in plant and fungal cells with biological molecules such as nucleic acids, amino acids and lipids. Energy flow processes such as photosynthesis, carbohydrate metabolism and respiration, are covered in the course. The integration of different pathways in plant development and responses to environmental stresses will be discussed.*

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|---|---|---|
| 0101 | Yiping Qi | Seats (Total: 20) |
| | TuTh 11:00am - 12:15pm | PLS 1168 |

**PLSC420** **Principles of Plant Pathology**

*Prerequisite: Minimum grade of C- in CHEM131, CHEM132, and PLSC201; or students who have taken courses with comparable content may contact the department.*

*An introduction to the causal agents, nature and management of plant diseases with particular attention paid to economically important diseases of horticultural and agronomic crops.*

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| 0101 | Nidhi Rawat | Seats (Total: 18) | |
| | TuTh 1:00pm - 2:15pm | PLS 1111 | |
| | Tu 2:30pm - 5:15pm | PLS 1153 | Lab |

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|---|---|---|---|
| 0102 | Nidhi Rawat | Seats (Total: 18) | |
| | TuTh 1:00pm - 2:15pm | PLS 1111 | |
| | Th 2:30pm - 5:15pm | PLS 1153 | Lab |

**PLSC433** **Technology of Fruit and Vegetable Production**

*Prerequisite: Minimum grade of C- in PLSC201, PLSC271, and ENST200; or students who have taken courses with comparable content may contact the department. Restriction: Junior standing or higher.*

*A critical analysis of research work and application of the principles of plant physiology, chemistry and botany to practical problems in the commercial production of fruit and vegetable crops.*

Students must pay a $100.00 lab fee.

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|---|---|---|---|
| 0101 | Diana Cochran | Seats (Total: 10) | |
| | MW 11:00am - 12:15pm | PLS 1158 | |
| | W 1:00pm - 4:50pm | PLS 0123 | Lab |

**PLSC453** **Weed Science**

*Weed identification, ecology, and control (cultural, mechanical, biological, and chemical methods).*

Labs will also occur in the Research Greenhouse.

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|---|---|---|---|
| 0101 | William Phillips | Seats (Total: 24) | |
| | Class time/details on ELMs | ONLINE | |
| | Tu 9:30am - 10:45am | PLS 1125 | |
| | Tu 11:00am - 12:50pm | PLS 1153 | Lab |

**PLSC489E** **Special Topics in Plant Science; Human Pathogens on Plants**

*A lecture and or laboratory series organized to study a selected phase of Plant Science not covered by existing courses. Credit according to time scheduled and organization of the course.*

Prerequisite: A microbiology course at 200 level or above; or permission of insructor. Restriction: Senior standing or Graduate students only. Fruit and vegetable crops harboring enteric pathogens such as Salmonella enterica, Shiga toxin-producing Escherichia coli (STEC) and Cyclospora cause thousands of foodborne illnesses and millions of dollars in financial losses a year. Enteric bacteria, viruses and parasites use various strategies to persist in the plant niche to pose a food safety risk to consumers. This course will discuss these microbial strategies, and how enteric bacteria colonize and internalize in plants. We will also examine plant recognition of bacteria and the ensuing bacterial response in enterobacterial-plant interactions. Finally, we will explore crop microbiome studies to understand connectivity in the food production chain to understand human pathogen dissemination in crop systems.

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| 0101 | Shirley Micallef | Seats (Total: 12) | |
| | W 3:00pm - 4:50pm | PLS 1125 | |

**PLSC489R** **Special Topics in Plant Science; Data Wrangling and Visualization with R**

*A lecture and or laboratory series organized to study a selected phase of Plant Science not covered by existing courses. Credit according to time scheduled and organization of the course.*

Students will learn the fundamentals of using R to handle, summarize and plot data in ways that are repeatable and transparent through a combination of lecture, hands-on demonstrations, and exercises. Using the approaches and philosophy of the Tidyverse you will learn workflow and coding habits that will help transform your ability to understand your data and communicate it to others. Through this course you will be fluent in the basic vocabulary and grammar of R.

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| 0101 | Maile Neel<br>MW 9:00am - 10:50am | Seats (Total: 23)<br>HJP 2217 |

**PLSC608** **Research Methods**

(Perm req)

*An overview of research methods and applications related to plant sciences. Topics covered include current research advances, professional conduct and ethics, and preparation of grant proposals, manuscripts, and scientific presentations.*

Prerequisite: permission of department. Repeatable to 6 credits if content differs. Credit will be granted for only one of the following: AGRO608, NRSC608, or PLSC608. Formerly NRSC608.

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|---|---|---|
| 0101 | James Culver, Shunyuan Xiao<br>M 3:30pm - 5:30pm | Seats (Total: 20)<br>PLS 1162 |

**PLSC608T** **Research Methods; Supervised Teaching**

(Perm req)

*An overview of research methods and applications related to plant sciences. Topics covered include current research advances, professional conduct and ethics, and preparation of grant proposals, manuscripts, and scientific presentations.*

Prerequisite: permission of department.

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|---|---|---|
| 0104 | Mark Carroll<br>Contact instructor or department for details. | Seats (Total: 5) |
| 4401 | William Phillips<br>Contact instructor or department for details. | Seats (Total: 5) |
| 7501 | Wendy Peer<br>Contact instructor or department for details. | Seats (Total: 5) |

**PLSC799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**PLSC898** **Pre-Candidacy Research**

**Contact department for information to register for this course.**

**PLSC899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# PORT Portuguese Fall 2024

**PORT103** **Intensive Elementary Portuguese**

*Prerequisite: Must have appropriate World Language Placement Test (WLPT) score. Credit only granted for: PORT103 or PORT104. Formerly: PORT104.*

*Covers speaking, reading, writing, listening, and culture of Portuguese-speaking world.*

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| 0101 | Barbara Zocal Da Silva<br>TuTh 11:00am - 12:15pm<br>W 11:00am - 11:50am | Seats (Total: 18)<br>JMZ 2120<br>WDS 1127 |

**PORT205** **Intermediate Reading and Conversation in Portuguese I**

*Prerequisite: PORT203; or permission of ARHU-School of Languages, Literatures, and Cultures department.*

*Development of spoken Portuguese at intermediate level based on written assignments and exams on readings in a variety of genres.*

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| 0101 | Barbara Zocal Da Silva<br>TuTh 3:30pm - 4:45pm | Seats (Total: 15)<br>JMZ 3122 |

**PORT234** **Issues in Latin American and Caribbean Studies I**

*Cross-listed with: LACS234, SPAN234. Credit only granted for: LASC234, PORT234, SPAN234, or LACS234. Formerly: LASC234.*

*Interdisciplinary study of major issues in Latin America and the Caribbean, including Latin America's cultural mosaic, migration and urbanization. Democratization and the role of religions. Taught in English.*

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| 0101 | Francisco Barrenechea Cuadra<br>MW 3:30pm - 4:45pm | Seats (Total: 30)<br>SQH 1119 |
| 0102 | Chris Lewis<br>TuTh 2:00pm - 3:15pm | Seats (Total: 25)<br>JMZ 2206 |

**PORT386** **Experiential Learning**

(Perm req)

*Restriction: Permission of ARHU-School of Languages, Literatures, and Cultures department; and junior standing or higher.*

**Contact department for information to register for this course.**

**PORT399** **Independent Study in Portuguese**

(Perm req)

*Specific readings in literature under the supervision of a faculty member of the department.*

**Contact department for information to register for this course.**

**PORT409A** **Special Topics in Brazilian Literature; Tropical Dreams: Nature and Art in Brazil**

*Major themes and literary development from the late eighteenth century to the present. Specific topic to be announced each time the course is offered.*

Cross-listed with LACS448Y, SPAN408O, and SPAN609A. Credit only granted for PORT409A, LACS448Y, SPAN408O, or SPAN609A. Interdisciplinary examination of tropicality and nature tropes that have shaped current cultural, political, and environmental debates in Brazil. Taught in English.

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|---|---|---|---|
| 0101 | Thayse Leal Lima | Seats (Total: 30) | |
| | TuTh 2:00pm - 3:15pm | JMZ 2123 | |

**PORT699** **Independent Study of Portuguese**

*This course is designed to provide graduate students an opportunity to pursue independent study under the supervision of a member of the department.*

**Contact department for information to register for this course.**

# PSYC Psychology Fall 2024

*The Department of Psychology enforces course prerequisites. Students who do not meet the course prerequisites will be administratively dropped from the course.*

**PSYC100** **Introduction to Psychology**

*A basic introductory course intended to bring the student into contact with the major problems confronting psychology and the more important attempts at their solution.*

Discussion sections do not meet until after first lecture. Research requirement: may involve participation in research.

*Click here for more course information.*

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|---|---|---|---|
| 0101 | Benjamin Jones | Seats (Total: 30) | |
| | Tu 9:00am - 10:40am | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 8:00am - 8:50am | BPS 1232 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |

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|---|---|---|---|
| 0102 | Benjamin Jones | Seats (Total: 30) | |
| | Tu 9:00am - 10:40am | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 11:00am - 11:50am | HBK 1108 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0103 | Benjamin Jones | Seats (Total: 30) | |
| | Tu 9:00am - 10:40am | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 11:00am - 11:50am | HBK 1112 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0104 | Benjamin Jones | Seats (Total: 30) | |
| | Tu 9:00am - 10:40am | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 2:00pm - 2:50pm | BPS 1232 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0105 | Benjamin Jones | Seats (Total: 30) | |
| | Tu 9:00am - 10:40am | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 3:00pm - 3:50pm | SPH 0305 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0106 | Benjamin Jones | Seats (Total: 30) | |
| | Tu 9:00am - 10:40am | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 8:00am - 8:50am | HBK 0123 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0107 | Benjamin Jones | Seats (Total: 30) | |
| | Tu 9:00am - 10:40am | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 11:00am - 11:50am | BPS 1232 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0108 | Benjamin Jones | Seats (Total: 30) | |
| | Tu 9:00am - 10:40am | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 11:00am - 11:50am | BPS 1228 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |

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|---|---|---|---|
| 0109 | Benjamin Jones | Seats (Total: 30) | |
| | Tu 9:00am - 10:40am | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 2:00pm - 2:50pm | ATL 2330 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0110 | Benjamin Jones | Seats (Total: 30) | |
| | Tu 9:00am - 10:40am | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 3:00pm - 3:50pm | ATL 2330 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0201 | Abigail Nicolas | Seats (Total: 30) | |
| | Th 3:30pm - 4:50pm | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 9:00am - 9:50am | BPS 1232 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0202 | Abigail Nicolas | Seats (Total: 30) | |
| | Th 3:30pm - 4:50pm | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 10:00am - 10:50am | BPS 1232 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0203 | Abigail Nicolas | Seats (Total: 30) | |
| | Th 3:30pm - 4:50pm | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 11:00am - 11:50am | HBK 0123 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0204 | Abigail Nicolas | Seats (Total: 30) | |
| | Th 3:30pm - 4:50pm | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 12:00pm - 12:50pm | HBK 0123 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0205 | Abigail Nicolas | Seats (Total: 30) | |
| | Th 3:30pm - 4:50pm | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 3:00pm - 3:50pm | HBK 0123 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |

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|---|---|---|---|
| 0206 | Abigail Nicolas | Seats (Total: 30) | |
| | Th 3:30pm - 4:50pm | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 9:00am - 9:50am | SPH 0305 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0207 | Abigail Nicolas | Seats (Total: 30) | |
| | Th 3:30pm - 4:50pm | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 10:00am - 10:50am | HBK 0123 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0208 | Abigail Nicolas | Seats (Total: 30) | |
| | Th 3:30pm - 4:50pm | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 11:00am - 11:50am | ATL 2330 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0209 | Abigail Nicolas | Seats (Total: 30) | |
| | Th 3:30pm - 4:50pm | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 12:00pm - 12:50pm | BPS 1232 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0210 | Abigail Nicolas | Seats (Total: 30) | |
| | Th 3:30pm - 4:50pm | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | F 3:00pm - 3:50pm | BPS 1232 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0301 | Joseph Barnet | Seats (Total: 30) | |
| | Tu 2:00pm - 3:40pm | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | Tu 5:00pm - 5:50pm | BPS 1232 | Discussion |
| 0302 | Joseph Barnet | Seats (Total: 30) | |
| | Tu 2:00pm - 3:40pm | BRB 1101 | |
| | Class time/details on ELMs | ONLINE | |
| | W 12:00pm - 12:50pm | HBK 1112 | Discussion |

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|---|---|---|---|
| 0303 | Joseph Barnet<br>Tu 2:00pm - 3:40pm<br>Class time/details on ELMs<br>W 1:00pm - 1:50pm | Seats (Total: 30)<br>BRB 1101<br>ONLINE<br>HBK 1112 | Discussion |
| 0304 | Joseph Barnet<br>Tu 2:00pm - 3:40pm<br>Class time/details on ELMs<br>W 10:00am - 10:50am | Seats (Total: 30)<br>BRB 1101<br>ONLINE<br>BPS 1238 | Discussion |
| 0305 | Joseph Barnet<br>Tu 2:00pm - 3:40pm<br>Class time/details on ELMs<br>F 10:00am - 10:50am | Seats (Total: 30)<br>BRB 1101<br>ONLINE<br>BPS 1238 | Discussion |
| 0306 | Joseph Barnet<br>Tu 2:00pm - 3:40pm<br>Class time/details on ELMs<br>W 11:00am - 11:50am | Seats (Total: 30)<br>BRB 1101<br>ONLINE<br>ONLINE | Discussion |
| 0307 | Joseph Barnet<br>Tu 2:00pm - 3:40pm<br>Class time/details on ELMs<br>W 4:00pm - 4:50pm | Seats (Total: 30)<br>BRB 1101<br>ONLINE<br>ONLINE | Discussion |
| 0308 | Joseph Barnet<br>Tu 2:00pm - 3:40pm<br>Class time/details on ELMs<br>F 9:00am - 9:50am | Seats (Total: 30)<br>BRB 1101<br>ONLINE<br>ONLINE | Discussion |
| 0309 | Joseph Barnet<br>Tu 2:00pm - 3:40pm<br>Class time/details on ELMs<br>F 11:00am - 11:50am | Seats (Total: 30)<br>BRB 1101<br>ONLINE<br>ONLINE | Discussion |
| 0310 | Joseph Barnet<br>Tu 2:00pm - 3:40pm<br>Class time/details on ELMs<br>F 11:00am - 11:50am | Seats (Total: 30)<br>BRB 1101<br>ONLINE<br>ONLINE | Discussion |

| | | | |
|---|---|---|---|
| 0401 | Dirk Parham<br>MW 2:00pm - 2:50pm<br>Class time/details on ELMs | Seats (Total: 50)<br>ONLINE<br>ONLINE | |
| FC01 | Heather Ganginis DelPino<br>F 1:00pm - 2:40pm<br>Class time/details on ELMs<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 37)<br>BPS 1238<br>ONLINE | Discussion |
| FC02 | Heather Ganginis DelPino<br>TuTh 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 37)<br>BPS 1238 | |
| FC03 | Benjamin Jones<br>MW 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 37)<br>ATL 2428 | |
| FC04 | Joseph Barnet<br>MW 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 37)<br>BPS 1238 | |

**PSYC123** **The Psychology of Getting Hired**

*Restriction: Must not be in a Robert H. Smith School of Business degree program. Additional information: Cannot be used in place of BMGT367 toward a degree program in the Robert H. Smith School of Business.*

*Designed to introduce students to the science behind the hiring process and to prepare individuals with the academic and practical training required. Together we will explore psychological principles that influence the selection process and how individuals can apply them for the competitive edge that makes others Fear the Turtle!*

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|---|---|---|
| 0101 | Erica Ely<br>Class time/details on ELMs | Seats (Total: 100)<br>ONLINE |
| 0201 | Erica Ely<br>Class time/details on ELMs | Seats (Total: 100)<br>ONLINE |
| 0301 | Erica Ely<br>Class time/details on ELMs | Seats (Total: 100)<br>ONLINE |

**PSYC200** **Statistical Methods in Psychology**

*Prerequisite: PSYC100; and 1 course with a minimum grade of C- from (STAT100, MATH107, MATH111, MATH120, MATH130, MATH136, or MATH140).*

*A basic introduction to quantitative methods used in psychological research.*

Restricted to PSYC, ENSP, BSCI, and NEUR majors.

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|---|---|---|---|
| 0101 | Tracy Tomlinson | Seats (Total: 28) | |
| | TuTh 8:00am - 9:15am | BPS 1250 | |
| | M 9:00am - 9:50am | HBK 1108 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0102 | Tracy Tomlinson | Seats (Total: 28) | |
| | TuTh 8:00am - 9:15am | BPS 1250 | |
| | M 10:00am - 10:50am | BPS 1243 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0103 | Tracy Tomlinson | Seats (Total: 28) | |
| | TuTh 8:00am - 9:15am | BPS 1250 | |
| | M 12:00pm - 12:50pm | BPS 1234 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0104 | Tracy Tomlinson | Seats (Total: 28) | |
| | TuTh 8:00am - 9:15am | BPS 1250 | |
| | M 2:00pm - 2:50pm | CCC 1100 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0105 | Tracy Tomlinson | Seats (Total: 28) | |
| | TuTh 8:00am - 9:15am | BPS 1250 | |
| | M 1:00pm - 1:50pm | CCC 1100 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0201 | Tracy Tomlinson | Seats (Total: 28) | |
| | TuTh 9:30am - 10:45am | BPS 1250 | |
| | M 9:00am - 9:50am | BPS 1232 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |
| 0202 | Tracy Tomlinson | Seats (Total: 28) | |
| | TuTh 9:30am - 10:45am | BPS 1250 | |
| | M 10:00am - 10:50am | BPS 1243 | Discussion |
| | Class time/details on ELMs | ONLINE | Discussion |

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|---|---|---|---|
| 0203 | Tracy Tomlinson<br>TuTh 9:30am - 10:45am<br>M 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 28)<br>BPS 1250<br>BPS 1232<br>ONLINE | <br><br>Discussion<br>Discussion |
| 0204 | Tracy Tomlinson<br>TuTh 9:30am - 10:45am<br>M 2:00pm - 2:50pm<br>Class time/details on ELMs | Seats (Total: 28)<br>BPS 1250<br>CCC 1100<br>ONLINE | <br><br>Discussion<br>Discussion |
| 0205 | Tracy Tomlinson<br>TuTh 9:30am - 10:45am<br>M 1:00pm - 1:50pm<br>Class time/details on ELMs | Seats (Total: 28)<br>BPS 1250<br>CCC 1100<br>ONLINE | <br><br>Discussion<br>Discussion |

**PSYC221** **Social Psychology**

*Prerequisite: PSYC100.*

*The influence of social factors on the individual and on interpersonal behavior. Includes topics such as conformity, attitude change, personal perception, interpersonal attraction, and group behavior.*

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|---|---|---|---|
| 0101 | Abigail Nicolas<br>MW 1:00pm - 1:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 150)<br>BPS 1250<br>BPS 1250 | <br><br>Discussion |
| 0201 | Joseph Barnet<br>TuTh 11:00am - 12:15pm | Seats (Total: 150)<br>KEY 0106 | |
| 0301 | Joseph Barnet<br>MW 2:00pm - 3:15pm | Seats (Total: 100)<br>TWS 0320 | |
| 0401 | Dirk Parham<br>Class time/details on ELMs | Seats (Total: 50)<br>ONLINE | |
| FC01 | Joseph Barnet<br>TuTh 4:30pm - 5:45pm<br>Class time/details on ELMs<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 37)<br>PLS 1119<br>ONLINE | <br><br>Discussion |

**PSYC232** **Psychology of Racism**

*Restriction: Limited to Psychology majors; if spaces remain in the course, will open to all majors.*

*Explores the causes, correlates, and consequences of racial prejudice in the United States and other national contexts. Using lecture, readings, and discussion, we will examine the psychological theory and research on what processes underlie and motivate racial prejudice; how racial prejudice is experienced by its targets; how racial prejudice pervades our culture and social institutions; and how racial prejudice is learned, maintained, and ultimately changed.*

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|---|---|---|
| 0101 | Linda Zou<br>MW 2:00pm - 3:15pm | Seats (Total: 40)<br>BPS 1238 |

**PSYC234** **Living the Good Life: The Psychology of Happiness**

*Credit only granted for: PSYC234 or PSYC289D. Formerly: PSYC289D.*

*What are the secrets to living a happy life? Can happiness be found within the context of war, a depressed economy, violence and other major stressors? Are some people born happier than others? This course will teach you the scientific process that psychologists use to study happiness (and related emotional variables) and give you the opportunity to practice applying that process in a number of ways. You will learn how we (a) gather and critically evaluate research findings in the existing literature, (b) integrate those findings into coherent and testable theories, (c) design and conduct valid scientific research that tests those theories and extends our knowledge, and (d) effectively communicate our theories and findings to a wide range of audiences. The result of the process is a more accurate and objective understanding of happiness, and that is what prepares you to apply your scientific understanding to explain and influence a wide range of outcomes.*

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|---|---|---|
| 0101 | Abigail Nicolas<br>MW 3:30pm - 4:45pm | Seats (Total: 135)<br>BPS 1250 |
| 0201 | Carole Sebenick<br>TuTh 9:30am - 10:45am | Seats (Total: 78)<br>MCB 1207 |
| FC01 | Heather Ganginis DelPino<br>TuTh 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 38)<br>ATL 1113 |

**PSYC262** **Asian American Psychology**

*Cross-listed with: AAST262. Credit only granted for: PSYC262, AAST262 or PSYC489Z. Formerly: PSYC489Z.*

*An overview of how socio-cultural influences impact the development and psychological health of Asian Americans. Other topics include how minority group status, adaptation and identity development influence various aspects of psychological functioning; the role of historic systematic racism; and, how the COVID-19 pandemic has negatively impacted Asian Americans. Students develop a deeper understanding of the role of stereotypes and racism, acculturation, racial identity development, cultural values, gender socialization, behavioral norms, family roles, stressors and social support systems on the mental health, well-being and health of Asian Americans.*

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|---|---|---|---|
| 0101 | Derek Iwamoto<br>TuTh 12:30pm - 1:45pm | Seats (Total: 60)<br>CHE 2108 | |

**PSYC300** **Research Methods in Psychology Laboratory**

*Prerequisite: PSYC200. Restriction: Must be in Psychology program or Social Data Science - Psychology Track.*

*A general introduction and overview to the fundamental theoretical, conceptual, and practical issues in psychological research in both the laboratory and the field.*

Restricted to PSYC and NEUR majors only.

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|---|---|---|---|
| 0101 | Amanda Chicoli<br>MW 10:00am - 10:50am<br>F 4:00pm - 5:50pm | Seats (Total: 16)<br>CCC 1100<br>BPS 1232 | Discussion |
| 0102 | Amanda Chicoli<br>MW 10:00am - 10:50am<br>Th 4:00pm - 5:50pm | Seats (Total: 16)<br>CCC 1100<br>ATL 2316 | Discussion |
| 0103 | Amanda Chicoli<br>MW 10:00am - 10:50am<br>W 4:00pm - 5:50pm | Seats (Total: 16)<br>CCC 1100<br>PLS 1164 | Discussion |
| 0104 | Amanda Chicoli<br>MW 10:00am - 10:50am<br>Th 4:00pm - 5:50pm | Seats (Total: 16)<br>CCC 1100<br>ATL 1109 | Discussion |
| 0105 | Amanda Chicoli<br>MW 10:00am - 10:50am<br>F 4:00pm - 5:50pm | Seats (Total: 16)<br>CCC 1100<br>BPS 1234 | Discussion |
| 0106 | Amanda Chicoli<br>MW 10:00am - 10:50am<br>W 4:00pm - 5:50pm | Seats (Total: 16)<br>CCC 1100<br>HBK 0108 | Discussion |
| 0201 | Ana Navarro Cebrian<br>TuTh 9:30am - 10:45am<br>Th 4:00pm - 5:50pm | Seats (Total: 16)<br>BPS 1243<br>PLS 1115 | Discussion |
| 0202 | Ana Navarro Cebrian<br>TuTh 9:30am - 10:45am<br>F 10:00am - 11:50am | Seats (Total: 16)<br>BPS 1243<br>PLS 1158 | Discussion |

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|---|---|---|---|
| 0203 | Ana Navarro Cebrian<br>TuTh 9:30am - 10:45am<br>F 12:00pm - 1:50pm | Seats (Total: 16)<br>BPS 1243<br>PLS 1164 | Discussion |
| 0204 | Ana Navarro Cebrian<br>TuTh 9:30am - 10:45am<br>F 2:00pm - 3:50pm | Seats (Total: 16)<br>BPS 1243<br>BPS 1228 | Discussion |
| 0205 | Ana Navarro Cebrian<br>TuTh 9:30am - 10:45am<br>W 4:00pm - 5:50pm | Seats (Total: 16)<br>BPS 1243<br>BPS 1228 | Discussion |
| 0206 | Ana Navarro Cebrian<br>TuTh 9:30am - 10:45am<br>F 12:00pm - 1:50pm | Seats (Total: 16)<br>BPS 1243<br>PLS 1158 | Discussion |
| 0301 | Jacob Coutts<br>MW 2:00pm - 3:15pm<br>Th 2:00pm - 3:50pm | Seats (Total: 16)<br>BPS 1250<br>ATL 2352 | Discussion |
| 0302 | Jacob Coutts<br>MW 2:00pm - 3:15pm<br>F 2:00pm - 3:50pm | Seats (Total: 16)<br>BPS 1250<br>HBK 0108 | Discussion |
| 0303 | Jacob Coutts<br>MW 2:00pm - 3:15pm<br>Th 11:00am - 12:50pm | Seats (Total: 16)<br>BPS 1250<br>PLS 1162 | Discussion |
| 0304 | Jacob Coutts<br>MW 2:00pm - 3:15pm<br>F 12:00pm - 1:50pm | Seats (Total: 16)<br>BPS 1250<br>PLS 1168 | Discussion |
| 0305 | Jacob Coutts<br>MW 2:00pm - 3:15pm<br>F 10:00am - 11:50am | Seats (Total: 16)<br>BPS 1250<br>PLS 1168 | Discussion |
| 0306 | Jacob Coutts<br>MW 2:00pm - 3:15pm<br>Th 4:00pm - 5:50pm | Seats (Total: 16)<br>BPS 1250<br>ATL 2352 | Discussion |

**PSYC302 Fundamentals of Learning and Behavior**

*Prerequisite: PSYC100, BSCI170, and BSCI171. Restriction: Restricted to psychology majors during the registration period; all other majors will be placed on a hold file.*

*Overview of the fundamental types of learning that occur without formal instruction. The course covers fundamentals of classical and instrumental conditioning as studied in a variety of species in addition to more modern theories of learning. We will then explore how these principles influence diverse processes such as memory, attention, extinction, categorization, motivation, and in some cases, how they are implemented in the brain and disrupted in disease.*

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|---|---|---|
| 0101 | Amanda Chicoli | Seats (Total: 50) |
| | TuTh 2:00pm - 3:15pm | SYM 0200 |

**PSYC303** **Professional Development for Psychology Majors**

*Prerequisite: PSYC123; or permission from the instructor with a completed resume. Restriction: Must have earned a minimum of 60 credits; and must be in the Psychology major.*

*An investigation of various career and graduate school opportunities available to psychology majors. Students will learn about a wide range of career fields, will learn how to utilize available resources to pursue career goals, and will take steps to advance their professional identity and development.*

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|---|---|---|
| 0101 | Jose Lima Rosas | Seats (Total: 50) |
| | Class time/details on ELMs | ONLINE |

**PSYC304** **Biological Psychology**

*Prerequisite: PSYC100, BSCI170 and BSCI171; or equivalent. Credit only granted for: PSYC301 or PSYC304. Formerly: PSYC301.*

*Biological Psychology is the study of the physiological basis of behavior. In this course, we will first cover the basic principles of brain organization and neural transmission. We will then introduce traditional and modern research techniques in the field of behavioral neuroscience. The last portion of the course focuses on specific topics including psychopharmacology, learning and memory, emotion, stress, drug of abuse, neurological disorders (e.g., Alzheimer's disease and Parkinson's disease) and schizophrenia.*

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|---|---|---|
| 0101 | Anna Li | Seats (Total: 117) |
| | TuTh 12:30pm - 1:45pm | JMZ 0220 |

**PSYC309D** **Special Topics in Psychology; Living the Moral Life: Introduction to Ethics for Psychology Students**

*Topics of current interest which represent extensions of or additions to topics covered in more general topical courses.*

Prerequisite: PSYC100. We will examine major ethical theories, as well as real-world ethical problems that you can encounter in your academic, professional, and personal lives. Examples include ethical challenges in medicine and other helping professions (privacy, informed consent, euthanasia), in research(plagiarism, fraud, conflict of interest), in the legal world (proportional punishment, death penalty), and at the societal level (responses to poverty and discrimination).

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| 0101 | David Yager<br>TuTh 9:30am - 10:45am | Seats (Total: 25)<br>CCC 1200 |

**PSYC309F** **Special Topics in Psychology**

(Perm req)

*Topics of current interest which represent extensions of or additions to topics covered in more general topical courses.*

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|---|---|---|
| 0101 | Nazish Salahuddin<br>W 1:00pm - 1:50pm | Seats (Total: 20)<br>BPS 1234 |

**PSYC330** **Child Psychopathology**

*Prerequisite: PSYC100. Restriction: Must be in Psychology program or Social Data Science - Psychology Track. Credit only granted for: PSYC309B or PSYC330. Formerly: PSYC309B.*

*Etiology, diagnosis, prevention and treatment of emotional disorders of childhood and adolescence.*

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|---|---|---|
| 0101 | Nadia Bounoua<br>TuTh 11:00am - 12:15pm | Seats (Total: 100)<br>BPS 1243 |

**PSYC332** **Psychology of Human Sexuality**

*Prerequisite: PSYC100.*

*A survey of historical and contemporary psychological views on a wide variety of sexual behaviors; theory and research bearing on the relationship between life span psychological development, psychological functioning, interpersonal processes and sexual behaviors; political and social issues involved in current sexual norms and practices.*

**Contact department for information to register for this course.**

**PSYC336** **Psychology of Women**

*Prerequisite: PSYC100. Cross-listed with: WGSS336. Credit only granted for: PSYC336, WMST336 or WGSS 336. Formerly: WMST336.*

*A study of the biology, life span development, socialization, personality, mental health, and special issues of women.*

Note: Students will be expected to engage in asynchronous coursework Friday's during the semester.

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|---|---|---|
| 0101 | Monica Kearney<br>MW 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 110)<br>BPS 1250<br>ONLINE |

**PSYC338D** **Special Topics in Study Abroad III; Developmental Disorders**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**PSYC338K** **Special Topics in Study Abroad III; Forensic Psychology**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**PSYC338L** **Special Topics in Study Abroad III; Dynamic Project Leadership**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**PSYC338N** **Special Topics in Study Abroad III; Neuroscience of Fear**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**PSYC338P** **Special Topics in Study Abroad III; Positive Psychology**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**PSYC341** **Introduction to Memory and Cognition**

*Prerequisite: PSYC200 and PSYC300.*

*An introduction to the basic concepts of cognitive psychology, the scientific study of mental processes. Topics will include perception, attention, memory, reasoning, and language, with an emphasis on how findings from cognitive psychology can inform real-life thinking (e.g., memory strategies for studying, pitfalls of multitasking, and how/why our memories can fail us).*

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| 0101 | Marissa Hartwig<br>TuTh 12:30pm - 1:45pm | Seats (Total: 117)<br>BPS 1250 |

**PSYC344** **Health Psychology**

*Prerequisite: PSYC100; or permission of instructor. Restriction: Must be in the Psychology program; or must be in a major within the School of Public Health; or permission of instructor. Credit only granted for: PSYC489U or PSYC344. Formerly: PSYC489U.*

*An examination of how psychological, biological, and social factors impact physical health and well-being. Students will use the biopsychosocial model to analyze topics including stress, health disparities, pain, addiction, disease states (e.g., cardiovascular disease, diabetes, cancer), and primary prevention.*

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|---|---|---|---|
| 0101 | Henry Willis<br>MW 3:00pm - 3:50pm<br>Class time/details on ELMs | Seats (Total: 75)<br>MCB 1207<br>ONLINE | Discussion |

**PSYC353** **Adult Psychopathology**

*Prerequisite: PSYC100. Restriction: Must be in Psychology program or Social Data Science - Psychology Track.*

*The nature, diagnosis, etiology, and treatment of mental disorders.*

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|---|---|---|
| 0101 | Susanna Crowell McQuarrie<br>TuTh 2:00pm - 3:15pm | Seats (Total: 117)<br>SHM 2102 |

**PSYC354** **Multicultural Psychology in the U.S.**

*Prerequisite: PSYC100.*

*What are the psychological implications of racism, sexism, homophobia and other structures of inequality in the United States? How do socio-cultural privilege and oppression influence individual and group thoughts, feelings, and behaviors? This course will take a current events focus to understanding multicultural and social justice issues in psychology with an emphasis on self-reflection, mental health, cross-cultural communication, and strategies for social change.*

Note: Students will be expected to engage in asynchronous coursework Friday's during the semester.

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|---|---|---|
| 0101 | Monica Kearney<br>MW 10:00am - 10:50am<br>Class time/details on ELMs | Seats (Total: 150)<br>BPS 1250<br>ONLINE |

**PSYC355** **Developmental Psychology**

*Prerequisite: PSYC100.*

*Survey of research and theory of psychological development from conception through childhood, stressing physiological, conceptual and behavioral changes, and the social and biological context in which individuals develop.*

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|---|---|---|
| 0101 | Fanita Tyrell<br>TuTh 11:00am - 12:15pm | Seats (Total: 115)<br>ESJ 2204 |
| 0201 | Desi Jones<br>TuTh 9:30am - 10:45am | Seats (Total: 115)<br>MMH 1400 |

**PSYC361** **Survey of Industrial and Organizational Psychology**

*Prerequisite: PSYC100.*

*A general survey of the field of industrial organizational psychology including such topics as organizational entry (recruitment, selection, training, socialization); organizational psychology (motivation, leadership, job attitudes); productivity in the workplace (performance appraisal, absenteeism, turnover), and the role that the larger environment plays in influencing work behaviors and work attitudes.*

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|---|---|---|
| 0101 | James Grand | Seats (Total: 75) |
| | TuTh 9:30am - 10:45am | ESJ 2204 |

**PSYC381** **Community Interventions: Domestic Violence I**

*Prerequisite: PSYC100. Restriction: Preference given to majors in Human Development, Psychology, and Women, Gender and Sexuality Studies. Credit only granted for: PSYC318D, PSYC381, WMST498A or WGSS498A. Formerly: PSYC318D. Additional information: Students who successfully complete this course may be eligible to enroll in PSYC319 - a service learning class in which students volunteer in the community to work with children who have experienced domestic violence and/or homelessness.*

*Study theories and research related to the dynamics and effects of intimate partner violence on women and children. Learn about community resources and interventions for survivors of domestic violence. Examine theoretical writings and research findings regarding the effects of gender, culture, race/ethnicity, and socioeconomic status on the experiences of intimate partner violence survivors and their children.*

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|---|---|---|
| 0101 | Karen O'Brien | Seats (Total: 35) |
| | MW 10:00am - 11:15am | PLS 1117 |

**PSYC389** **Experiential Learning**

(Perm req)

*Internship in psychology-related fields.*

A course for undergraduate psychology majors to earn academic credit for an approved psychology-related internship experience. Information about the course may be obtained in BPS1121, or by contacting the instructor. Restricted to PSYC majors only.

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|---|---|---|
| 0101 | Steven Young | Seats (Total: 20) |
| | Class time/details on ELMs | ONLINE |

**PSYC403** **Animal Behavior**

*Prerequisite: PSYC202 or NEUR200.*

*Reviews the theoretical framework underlying the study of animal behavior. The genetic, hormonal and physiological basis of behavior, and the relation to ecological and evolutionary processes will be discussed using examples that range from invertebrate animals to humans.*

Restricted to PSYC and NEUR majors only.

**Contact department for information to register for this course.**

**PSYC404** **Introduction to Behavioral Pharmacology**

*Prerequisite: PSYC202 or NEUR200. Restriction: Must be in Psychology program.*

*Theoretical viewpoints on the interaction of drugs and behavior. Basic principles of pharmacology, the effects of drugs on various behaviors, experimental analysis of drug dependence and abuse, and neuropharmacology and behavior.*

Restricted to PSYC and NEUR majors only.

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|---|---|---|---|
| 0101 | Ana Navarro Cebrian<br>TuTh 11:00am - 12:15pm | Seats (Total: 50)<br>BPS 1236 | |

**PSYC407** **Behavioral Neurobiology Laboratory**

*Prerequisite: PSYC300; and (PSYC202 or NEUR200). Restriction: Must be in Psychology program; and must have earned a minimum of 85 credits.*

*In this lab course, you will collect behavioral and physiological data in humans using classic behavioral paradigms, design models of neural circuits that can explain those behaviors, record neural activity from the roach, and write lab reports describing your results and how they relate to patients with psychiatric illnesses.*

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|---|---|---|---|
| 0101 | Matthew Roesch<br>M 9:00am - 9:50am<br>W 8:00am - 11:00am | Seats (Total: 8)<br>BPS 1228<br>BPS 0263 | <br><br>Lab |
| 0201 | Matthew Roesch<br>M 9:00am - 9:50am<br>W 12:00pm - 3:00pm | Seats (Total: 8)<br>BPS 1228<br>BPS 0263 | <br><br>Lab |
| 0301 | Matthew Roesch<br>M 9:00am - 9:50am<br>F 12:00pm - 3:00pm | Seats (Total: 8)<br>BPS 1228<br>BPS 0263 | <br><br>Lab |

**PSYC409** **Topics in Neurosciences Seminar**

(Perm req)

*Current research in neurosciences will be presented, read, and discussed. Emphasis will change each term.*

For students in the neuroscience minor. Research presentations on selected topics in neuroscience. Review and discussion of background readings related to research presentations take place on alternate weeks. Restricted to students in the neuroscience minor.

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|---|---|---|
| 0101 | Amanda Chicoli<br>W 3:00pm - 4:50pm | Seats (Total: 40)<br>HBK 0109 |

**PSYC411** **Introduction to Functional Magnetic Resonance Imaging**

*Prerequisite: PSYC200 and PSYC300; and (PSYC202 or NEUR200). Restriction: Must be in a major within BSOS-Psychology department. Credit only granted for: NACS728F or PSYC411.*

*An introduction to functional magnetic resonance imaging (fMRI). Students will be taught about formulating testable hypotheses with fMRI, utilizing basic methods in fMRI studies, and understanding existing limitations of fMRI studies in the literature.*

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|---|---|---|
| 0101 | Luiz Pessoa<br>TuTh 11:00am - 12:15pm | Seats (Total: 20)<br>CCC 1111 |

**PSYC417** **Data Science for Psychology and Neuroscience Majors**

*Prerequisite: PSYC200 and PSYC300; and (MATH120, MATH130, or MATH140). Credit only granted for: PSYC489D or PSYC417. Formerly: PSYC489D.*

*A large number of industry and academic jobs require basic programming and data analysis skills. This class represents an introduction to both. Students will learn to program in R and will briefly be introduced to Python, the two most popular programming languages for data science. Common constructs shared by a variety of procedural programming languages will be emphasized. Basic statistics and probability theory will be reviewed from a computational perspective, and more advanced topics introduced. During the course, students will simulate toy data sets which they will then analyze knowing how the data came about, as well as work with real data. The class is highly hands-on with a large number of in-class lab and homework projects. Expect to work a lot and move quickly. Because of the hands-on nature of the class, the overall focus is more on application and execution rather than theory. However, some theory is covered at a high level so that students are aware of why they are doing something, rather than mindlessly writing code.*

Restricted to PSYC and NEUR majors only.

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|---|---|---|
| 0101 | Sean Maulhardt<br>MW 1:00pm - 3:00pm | Seats (Total: 24)<br>ATL 1410 |
| 0201 | Caroline Charpentier<br>TuTh 12:30pm - 2:30pm | Seats (Total: 24)<br>PLS 1129 |

**PSYC420** **Experimental Psychology: Social Psychology Laboratory**

*Prerequisite: PSYC300 and PSYC221. Restriction: Must be in Psychology program or Social Data Science - Psychology Track; and must have earned a minimum of 85 credits.*

*A laboratory course to provide a basic understanding of experimental methods in social psychology and experience in conducting research on social processes.*

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| 0101 | Edward Lemay<br>MW 10:00am - 10:50am<br>F 10:00am - 11:50am | Seats (Total: 15)<br>HBK 0105<br>LEF 0225 | <br><br>Lab |
| 0102 | Edward Lemay<br>MW 10:00am - 10:50am<br>F 10:00am - 11:50am | Seats (Total: 15)<br>HBK 0105<br>LEF 0225 | <br><br>Lab |
| 0201 | Edward Lemay<br>MW 11:00am - 11:50am<br>Th 2:00pm - 3:50pm | Seats (Total: 15)<br>BPS 0283<br>LEF 0231 | <br><br>Lab |
| 0202 | Edward Lemay<br>MW 11:00am - 11:50am<br>Th 2:00pm - 3:50pm | Seats (Total: 15)<br>BPS 0283<br>LEF 0231 | <br><br>Lab |

**PSYC425** **Psychology and Law**

*Prerequisite: PSYC100, PSYC200, and PSYC300. Restriction: Must be in Psychology program or Social Data Science - Psychology Track. Credit only granted for: PSYC325 or PSYC425.*

*An introduction to the intersection of psychology and the criminal justice system, known as the field of legal psychology. The material covered will span the course of the criminal justice process and examine each aspect from a psychological perspective beginning with profiling and moving on to eyewitness memory and judgements through perpetrator memories and interrogation techniques. These aspects will be evaluated with a research lens as well as an applied outlook.*

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|---|---|---|---|
| 0101 | Tracy Tomlinson<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>BPS 1232 | |

**PSYC432** **Counseling Psychology: Theories, Research, and Practice**

*Prerequisite: PSYC200.*

*Analysis of research and intervention strategies developed and used by counseling psychologists. Historical and current trends in content and methodology.*

Note: Students will be expected to engage in asynchronous coursework Friday's during the semester.

*Click here for sample course syllabus.*

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|---|---|---|---|
| 0101 | Erin Hill<br>MW 10:00am - 10:50am<br>Class time/details on ELMs | Seats (Total: 75)<br>ESJ 0215<br>ONLINE | <br><br>Discussion |

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|---|---|---|---|
| 0201 | Monica Kearney<br>MW 2:00pm - 2:50pm<br>Class time/details on ELMs | Seats (Total: 75)<br>PLS 1130<br>ONLINE | Discussion |

**PSYC433** **Basic Helping Skills: Research and Practice**

*Prerequisite: PSYC300. Restriction: Must be in Psychology program; and must have earned a minimum of 85 credits; and must not have completed or be concurrently enrolled in EDCP 310. Credit only granted for: EDCP210, EDCP310, or PSYC433.*

*Theories and research regarding effective helping relationships, with a focus on applications to counseling and psychotherapy. Students will practice helping skills with each other and will conduct research projects evaluating their helping skills. Students should be willing to talk about personal issues in class. Attendance in labs is mandatory and contributes to the course grade; thus, students should only enroll in a lab section that they will be able to attend consistently.*

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| 0101 | Terrill Taylor<br>Tu 2:00pm - 3:50pm<br>W 9:00am - 10:50am | Seats (Total: 12)<br>ESJ 2208<br>BPS 1232 | Lab |
| 0102 | Terrill Taylor<br>Tu 2:00pm - 3:50pm<br>W 11:00am - 12:50pm | Seats (Total: 12)<br>ESJ 2208<br>BPS 1232 | Lab |
| 0103 | Terrill Taylor<br>Tu 2:00pm - 3:50pm<br>Th 4:00pm - 5:50pm | Seats (Total: 12)<br>ESJ 2208<br>BPS 1234 | Lab |
| 0104 | Terrill Taylor<br>Tu 2:00pm - 3:50pm<br>W 3:00pm - 4:50pm | Seats (Total: 12)<br>ESJ 2208<br>BPS 1234 | Lab |
| 0105 | Terrill Taylor<br>Tu 2:00pm - 3:50pm<br>Th 2:00pm - 3:50pm | Seats (Total: 12)<br>ESJ 2208<br>BPS 1234 | Lab |
| 0106 | Terrill Taylor<br>Tu 2:00pm - 3:50pm<br>F 9:00am - 10:50am | Seats (Total: 12)<br>ESJ 2208<br>BPS 1234 | Lab |
| 0107 | Terrill Taylor<br>Tu 2:00pm - 3:50pm<br>F 11:00am - 12:50pm | Seats (Total: 12)<br>ESJ 2208<br>BPS 1234 | Lab |

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|---|---|---|---|
| 0108 | Terrill Taylor<br>Tu 2:00pm - 3:50pm<br>F 1:00pm - 2:50pm | Seats (Total: 12)<br>ESJ 2208<br>BPS 1234 | <br><br>Lab |
| 0109 | Terrill Taylor<br>Tu 2:00pm - 3:50pm<br>F 1:00pm - 2:50pm | Seats (Total: 12)<br>ESJ 2208<br>BPS 1236 | <br><br>Lab |

**PSYC436** **Introduction to Clinical Psychology: From Science to Practice**

*Prerequisite: PSYC300.*

*Critical analysis of clinical psychology, with particular emphasis on current developments and trends.*

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| 0101 | Andres De Los Reyes<br>MWF 11:00am - 11:50am | Seats (Total: 75)<br>ESJ 1215 |

**PSYC437** **The Assessment and Treatment of Addictive Behaviors**

*Prerequisite: PSYC100; and 9 credits in PSYC courses.*

*Explores the current research in assessment and treatment of addictive behaviors. Topics may include addictions in the areas of alcohol, drugs, nicotine, gambling, and eating.*

This course focuses on issues surrounding diversity and the interactions of stigmatized and non-stigmatized individuals, with an emphasis on the context of work. We will cover issues related to diversity and discri- mination from several different perspectives, including: the person(s) being stigmatized, the person(s) doing the stigmatizing, the bystander(s ) witnessing stigmatization of others, and the organization.

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| 0101 | Edward Bernat<br>MW 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 50)<br>BPS 1236<br>ONLINE |
| 0201 | Edward Bernat<br>MW 1:00pm - 1:50pm<br>Class time/details on ELMs | Seats (Total: 80)<br>BPS 1243<br>ONLINE |

**PSYC440** **Experimental Psychology: Cognitive Processes and Legal Applications**

*Prerequisite: PSYC100, PSYC200, PSYC300 and PSYC341. Restriction: Must be in Psychology program or Social Data Science - Psychology Track; and must have earned a minimum of 85 credits.*

*A survey of the content, models, and methods in cognitive psychology with an emphasis on attention and encoding, recall, recognition, judgment, signal detection theory, and applying cognitive theories to situations in the legal system. Students integrate scientific theories with real-life legal situations. Course topics include research methodology in assessing and addressing cognitive mechanisms and how this understanding may help eyewitness and victim recall and recognition, perpetrator recall, assessing scientific theories of repression, and real life examples.*

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|---|---|---|---|
| 0101 | Tracy Tomlinson | Seats (Total: 24) | |
| | TuTh 2:00pm - 3:15pm | PLS 1146 | |
| | W 1:00pm - 2:50pm | ATL 1434 | Lab |

**PSYC442** **Psychology of Language**

*Prerequisite: PSYC300 and PSYC341. Restriction: Must be in Psychology program.*

*Introductory survey of the psychology of language, focusing on the cognitive processes that enable us to produce and understand language. Topics include speech perception, speech production, syntactic processing, language development, language disorders, and the brain bases of language.*

**Contact department for information to register for this course.**

**PSYC447** **Diversity in Organizations**

*Prerequisite: PSYC300. Credit only granted for: PSYC489E or PSYC447. Formerly: PSYC489E.*

*Overview and active discussion of issues related to diversity and discrimination in organizations from several different perspectives, including: the person(s) being stigmatized, the person(s) doing the stigmatizing, the bystander(s) witnessing stigmatization of others, and the organization. Course readings address each of these perspectives, along with an introductory unit that outlines key concepts of diversity.*

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|---|---|---|---|
| 0101 | Jennifer Wessel | Seats (Total: 40) | |
| | TuTh 12:30pm - 1:45pm | BPS 1238 | |

**PSYC450** **Applying Psychology to the Workplace: Industrial Organizational Psychology Laboratory**

*Prerequisite: PSYC300.*

*In this laboratory course, students use data analytic techniques, along with psychology theories and principles, to solve problems and provide recommendations to mock organizations. Along with learning theories in industrial-organizational psychology and statistical analysis, students will improve personal presentation skills that promote effective communication of information.*

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|---|---|---|---|
| 0101 | Benjamin Jones | Seats (Total: 15) | |
| | MW 10:00am - 10:50am | HBK 1112 | |
| | F 10:00am - 11:50am | HBK 0108 | Lab |

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|---|---|---|---|
| 0102 | Benjamin Jones<br>MW 10:00am - 10:50am<br>F 12:00pm - 1:50pm | Seats (Total: 15)<br>HBK 1112<br>HBK 0108 | <br><br>Lab |
| 0201 | Benjamin Jones<br>MW 2:00pm - 2:50pm<br>Th 9:00am - 10:50am | Seats (Total: 15)<br>HBK 0109<br>HBK 0123 | <br><br>Lab |
| 0202 | Benjamin Jones<br>MW 2:00pm - 2:50pm<br>Th 12:00pm - 1:50pm | Seats (Total: 15)<br>HBK 0109<br>SPH 0301 | <br><br>Lab |

**PSYC460** **Psychological Foundations of Personnel Selection and Training**

*Prerequisite: PSYC361 and PSYC200.*

*An examination of issues and processes involved in the design and evaluation of personnel selection and training programs in a variety of organizational settings: job, person and organizational analysis; organizational choice; development of predictors; evaluation of instructional and training systems; criteria for performance evaluation, promotion and training.*

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|---|---|---|
| 0101 | Emily Forgo<br>TuTh 11:00am - 12:15pm | Seats (Total: 40)<br>BPS 1238 |

**PSYC469H** **Honors Thesis Proposal Preparation**

(Perm req)

*Development of honors thesis proposal by preliminary research and literature review. Presentation of formal proposal to the thesis committee.*

Restricted to undergraduate PSYC majors only.

**Contact department for information to register for this course.**

**PSYC478** **Independent Study in Psychology**

(Perm req)

Information about independent study may be obtained in BPS 1121. Restricted to PSYC majors (20010) only. The student must have completed 9 hours in PSYC with at least a 3.0 GPA in PSYC and a 2.8 overall GPA.

**Contact department for information to register for this course.**

**PSYC479** **Special Research Problems in Psychology**

(Perm req)

Information about research credit may be obtained in BPS 1121. Restricted to PSYC majors (20010) only. The student must have completed 9 hours in PSYC with at least a 3.0 GPA in PSYC and a 2.8 overall GPA.

**Contact department for information to register for this course.**

**PSYC489A** **Advanced Special Topics in Psychology; The Nature and Biological Bases of Emotion**

*Treatment of a specialized topic in psychology.*

Restricted to PSYC majors and NEUR majors. Multidisciplinary exploration of the current state of our scientific understanding of emotional states and traits, their biological roots, and their relevance to psychiatric disease, with a major focus on anxiety disorders, depression, and addiction. We will cover foundational knowledge in neuroscience and genetics, strengths and weaknesses of popular methods, classic and cutting-edge empirical work, and ongoing conceptual debates. We will discuss crucial discrepancies between the ways in which scientists, laypeople, and Hollywood conceptualize emotions. In addition to human neuroimaging and genomic-association studies, we will explore biological research that affords causal insights, including animal models, acute pharmacological challenges, neurofeedback, brain stimulation, and case studies of patients with circumscribed neural insults.

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|---|---|---|
| 0101 | Alexander Shackman | Seats (Total: 75) |
| | MW 5:30pm - 6:45pm | ATL 1113 |

**PSYC489E** **Advanced Special Topics in Psychology; Introduction to LGBTQIA+ Populations and Psychology**

*Treatment of a specialized topic in psychology.*

Prerequisite: PSYC300 An introduction to the study of lesbian, gay, bisexual, transgender, queer, intersex, and asexual (LGBTQIA+) populations. Using an intersectional approach, students will develop a multidisciplinary understanding of the historical, social, psychological, cultural, and structural determinants of mental and physical health of LGBTQIA+ populations as well as learn about interventions that promote their health and resilience.

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|---|---|---|
| 0101 | Ethan Mereish | Seats (Total: 40) |
| | MW 3:30pm - 4:45pm | BPS 1238 |

**PSYC489G** **Advanced Special Topics in Psychology; Hormones and Behavior**

*Treatment of a specialized topic in psychology.*

Prerequisite: C- or better in BSCI330, NEUR200, or PSYC202. Cross-listing with BSCI338N. Credit only granted for BSCI338N or PSYC489G. A comprehensive overview of the field of behavioral endocrinology, the study of the relationship between hormones and behavior, from a psychobiological perspective. Examine the major mammalian endocrine systems, how hormones influence sex determination, how hormones underlie sex differences in brain structure and function, the role of hormones in parental and social behaviors, mood disorders, homeostasis, cognition, and stress. Both normal and abnormal hormonal pathologies will be discussed. Due to the physiological and experimental perspectives, much of the phenomenology will be based on research in species other than humans. This species comparative approach will reveal interesting "ways of doing things" that are intriguingly different from how "humans do things."

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| 0101 | Mary Ann Rankin | Seats (Total: 35) |
| | TuTh 2:00pm - 3:15pm | BPS 1238 |

**PSYC489Y** **Advanced Special Topics in Psychology; RISK AND RESILIENCE ACROSS DEVELOPMENT**

*Treatment of a specialized topic in psychology.*

Provides an overview of risk and resilience processes across the lifespan, with a particular focus on adaptation to environmental adversity (e.g., pollution, community violence) and protective (e.g., greenspace, community cohesion) factors. We consider adaptation across multiple levels of analysis, from biological markers to cognition and behavior. The course includes a deep discussion of the role of socioeconomic disadvantage and discrimination in producing environmental inequities.

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| 0101 | Arianna Gard | Seats (Total: 30) |
| | MW 3:30pm - 4:45pm | HBK 1108 |

**PSYC499H** **Honors Thesis Research**

(Perm req)

In addition to the department and instructor, the director of the honors program may be contacted to obtain a section number. Prerequisite: permission of the thesis advisor. Permission may be obtained in BPS 1147. Restricted to undergraduate PSYC majors only.

**Contact department for information to register for this course.**

**PSYC601** **Quantitative Methods I**

(Perm req)

*Prerequisite: PSYC200; or students who have taken courses with comparable content may contact the department.*

*A basic course in quantitative/mathematical analysis and statistical methods in psychology with an emphasis on conceptual understanding. Topics include issues in measurement, probability theory, statistical inference and hypothesis testing, parameter estimation, bivariate regression, and correlation.*

For PSYC majors only. For all non-psychology graduate students, written permission of the instructor and department is required.

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|---|---|---|---|
| 0101 | Paul Hanges | Seats (Total: 22) | |
| | Tu 9:00am - 11:30am<br>Th 9:00am - 9:50am<br>Th 10:00am - 12:00pm | BPS 1234<br>BPS 1140B<br>BPS 1140B | <br><br>Lab |

**PSYC603** **Introduction to Industrial and Organizational Psychology**

*Credit only granted for: PSYC603 or PSYC730. Formerly: PSYC730.*

*Advanced survey of industrial-organizational psychology, including selection, training, motivation, group processes, leadership, organizational psychology, and organizational theory. Readings stressed and seminar time will be used for lectures, discussion and integration of the reading materials.*

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|---|---|---|---|
| PCI1 | Lacey Farrow | Seats (Total: 40) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | M 5:00pm - 8:00pm<br>Class time/details on ELMs | BPS 1140B<br>ONLINE | <br>Discussion |
| | *Must be in the Industrial/Organizational Psychology (MPS). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | | |

**PSYC614** **Emotion: From Biological Foundations to Contemporary Debates in the Psychological Sciences**

*Multidisciplinary exploration of the current state of our scientific understanding of emotional states and traits, their biological roots, and their relevance to psychiatric disease. We will cover foundational knowledge in neuroscience and genetics, strengths and weaknesses of widely used methods, classic and cutting-edge empirical work, and ongoing conceptual debates. We will also discuss crucial discrepancies between the ways in which scientists and laypeople conceptualize emotions. In addition to human neuroimaging and genomic-association studies, we will explore biological research that affords causal insights, including animal models, acute pharmacological challenges, neurofeedback, and brain stimulation approaches, and case studies of patients with circumscribed neural insults.*

| | | | |
|---|---|---|---|
| 0101 | Alexander Shackman | Seats (Total: 20) | |
| | M 9:00am - 11:45am | BPS 1234 | |

**PSYC622** **Research Methods in Clinical Psychology**

*Restriction: Permission of instructor. Credit only granted for: PSYC622 or PSYC718. Formerly: PSYC718.*

*Examines issues and strategies in conceptual systems, designs and methodologies of current research in clinical and community psychology. Readings include critical analyses of published research. Course requirements include preparation of a research proposal for a thesis level study.*

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| PCC1 | Susanna Crowell McQuarrie<br>**Meets August 26, 2024 - November 15, 2024**<br>Th 6:00pm - 9:10pm<br>*Must be in Clinical Psychological Science (MPS). Golden ID students are not eligible for this section.* | Seats (Total: 40)<br>BPS 1236 |

**PSYC624** **Adult Psychopathology**

(Perm req)

*Restriction: Permission of instructor; and must be in one of the following programs (Psychology (Master's); Psychology (Doctoral)). Credit only granted for: PSYC624 or PSYC719. Formerly: PSYC719.*

*Examines the scientific and clinical literature relevant to normal and pathological behavior in adults and associated nosological systems for categorizing psychopathology. Issues relevant to etiology, differential diagnosis, and treatment planning are also considered.*

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|---|---|---|
| 0101 | Yevgeny Botanov<br>Tu 1:00pm - 3:30pm | Seats (Total: 20)<br>BPS 1140B |

**PSYC629B** **Clinical Laboratory; Assessment Practicum**

*Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.*

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|---|---|---|
| 0101 | Yevgeny Botanov<br>Contact instructor or department for details. | Seats (Total: 10) |

**PSYC629C** **Clinical Laboratory; Adult Therapy Practicum**

*Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.*

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|---|---|---|
| 0101 | Mary Byrne<br>Contact instructor or department for details. | Seats (Total: 10) |

**PSYC629D** **Clinical Laboratory; Child and Adolescent Therapy Practicum**

*Provides advanced supervised experience in the delivery and supervision of mental health interventions targeted to individuals. Supervised work with clients is required.*

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| 0101 | John Persampiere<br>Contact instructor or department for details. | Seats (Total: 10) |

**PSYC638** **Externship in Professional Psychology**

*Approved appointment as an extern in a mental health setting.*

For PSYC majors only.

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|---|---|---|
| 0101 | Lea Dougherty<br>Contact instructor or department for details. | Seats (Total: 20) |
| 0201 | Derek Iwamoto<br>Contact instructor or department for details. | Seats (Total: 20) |

**PSYC639** **Internship in Professional Psychology**

*This seminar combines involvement with a program approved appointment as an intern in a mental setting with a supervisory review of the training experience.*

For PSYC majors only.

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| 0101 | Lea Dougherty<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

**PSYC643** **Ethics and Foundations of Assessment and Clinical Intervention**

*Restriction: Permission of instructor; and must be in one of the following programs (Psychology (Master's); Psychology (Doctoral)). Credit only granted for: PSYC643 or PSYC719. Formerly: PSYC719.*

*An overview of the ethical and professional issues involved in psychological research, instruction, and practice, with special attention to advocacy and ethical decision making regarding a variety of primary, secondary, and tertiary clinical/community interventions.*

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| 0101 | Mary Byrne<br>W 1:00pm - 3:30pm | Seats (Total: 20)<br>BPS 1228 |
| PCC1 | Rachel Singer<br>**Meets August 26, 2024 - November 15, 2024**<br>Tu 6:00pm - 9:10pm<br>*Must be in Clinical Psychological Science (MPS). Golden ID students are not eligible for this section.* | Seats (Total: 35)<br><br><br>BPS 1140B |

**PSYC644** **Basic Foundation of Clinical Interventions**

*Restriction: Permission of instructor; and must be in one of the following programs (Psychology (Master's); Psychology (Doctoral)).*

*General introduction to behavior theory and the basic behavioral principles that underlie behavior therapy. Provides an introduction to the philosophical, theoretical and empirical contributions of basic behavior analysis as they relate to behavior therapy, including examples of how behavior therapy is disconnected from its roots.*

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|---|---|---|
| PCC1 | Christina Danko<br>**Meets August 26, 2024 - November 15, 2024**<br>Tu 6:00pm - 9:10pm | Seats (Total: 40)<br><br>BPS 1236 |
| | *Must be in Clinical Psychological Science (MPS). Golden ID students are not eligible for this section.* | |

**PSYC651** **Writing and Critical Thinking**

*Restriction: Must be enrolled in and have successfully completed all courses in the first 4 terms of the Clinical Psychological Science MPS program.*

*A capstone experience to integrate knowledge learned throughout the program and improve critical thinking and research writing skills. This will be done through the production of a major research paper in an area relevant to the current or future career goals of the student and by emphasizing critical thinking skills.*

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|---|---|---|
| PCC1 | Christina Danko<br>**Meets August 26, 2024 - November 15, 2024**<br>Th 6:00pm - 9:10pm | Seats (Total: 20)<br><br>BPS 1140B |
| | *Must be in Clinical Psychological Science (MPS). Golden ID students are not eligible for this section.* | |
| PCC2 | Jack Blanchard<br>**Meets August 26, 2024 - November 15, 2024**<br>Th 6:00pm - 9:10pm | Seats (Total: 20)<br><br>BPS 1140B |
| | *Must be in Clinical Psychological Science (MPS). Golden ID students are not eligible for this section.* | |

**PSYC653** **The Business of Evaluation: Research Methods at Work**

*Prerequisite: PSYC652. Additional information: Course builds from work completed in PSYC 652. Students are also expected to commit to a two-term long project. Students will work with a non-profit organization or local business to ask and answer a business question for the organization. Students will conclude this project in PSYC 654.*

*Students will learn about the strengths and weaknesses of commonly employed research methods in business settings, including: longitudinal research, survey and interview (including focus groups) design, and sampling and weighting. Students will design and launch a research study that will answer a pressing business question.*

| | | | |
|---|---|---|---|
| PCI1 | Andrew Naber | Seats (Total: 40) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | M 5:00pm - 8:00pm | BPS 1140B | |
| | Class time/details on ELMs | ONLINE | |
| | *Must be in the Industrial/Organizational Psychology (MPS). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | | |

**PSYC654** **Advanced Analytical Thinking: Statistical Methods at Work II**

*Prerequisite: PSYC652 and PSYC653. Restriction: Must be in the Master of Professional Studies in Industrial/Organizational Psychology Program.*

*Students will delve deeply into issues of interpreting and questioning analytic results. Students will learn how to creatively present empirical results in ways that grab the attention of, and are clear to, a variety of stakeholders. Students will present group projects in two presentations, one to the rest of the class (technical audience) and one to an expert panel of practitioners. Finally, this course will introduce students conceptually to a number of advanced statistical methods, such as meta-analysis and structural equation modeling.*

| | | | |
|---|---|---|---|
| PWI1 | Joselito Lualhati | Seats (Total: 40) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | M 5:00pm - 8:00pm | ONLINE | |
| | Class time/details on ELMs | ONLINE | Discussion |
| | *Must be in the Industrial/Organizational Psychology, Online (MPS). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | | |

**PSYC660** **Performance Management, Compensation, and Benefits**

*Restriction: Must be in the Master of Professional Studies in Industrial/Organizational Psychology Program.*

*This course draws together content on organizational behavior, selection, assessment, development, employee relations, and compensation, among other topics. Students in this course will learn about how to align organizational reward systems, including selection, development, performance appraisal, feedback, and compensation systems. This course will pull from current organizational research and theory on issues ranging from work motivation, employee retention, and feedback processes to issues of organizational strategy and culture.*

| | | |
|---|---|---|
| PCI1 | Kenneth Yusko | Seats (Total: 36) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | M 5:00pm - 8:00pm<br>Class time/details on ELMs | ESJ B0320<br>ONLINE |
| | *Must be in the Industrial/Organizational Psychology (MPS). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**PSYC661** **Practicum in IO Psychology**

*Prerequisite: PSYC603, PSYC652, PSYC653, and PSYC654. Restriction: Must be in the Master of Professional Studies in Industrial/Organizational Psychology Program.*

*In this practicum, students will work on IO-related tasks in an organization and will have the opportunity to apply what they have learned in class to real-world problems. Students will write a reflection paper reviewing what skills they have applied - and developed - while completing this practicum.*

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|---|---|---|
| PCI1 | David Shar | Seats (Total: 36) |
| | **Meets August 26, 2024 - November 15, 2024** | |
| | M 5:00pm - 8:00pm<br>Class time/details on ELMs | ESJ B0320<br>ONLINE |
| | *Must be in the Industrial/Organizational Psychology (MPS). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**PSYC692** **Assessment in Counseling Psychology I**

(Perm req)

*Prerequisite: PSYC680. Credit only granted for: PSYC692 or PSYC721. Formerly: PSYC721.*

*Broad introduction to the construction of psychological tests and measures, and experience in test interpretation, with consideration of historical, legal, ethical, and cultural issues surrounding the assessment process.*

Restricted to PSYC and COSP majors

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|---|---|---|
| 0101 | Jonathan Mohr | Seats (Total: 10) |
| | M 1:00pm - 4:00pm | BPS 1232 |

**PSYC732** **Selection and Classification Issues in Organizations**

*Prerequisite: PSYC603; and (PSYC602; or students who have taken courses with comparable content may contact the department). Or permission of instructor.*

*Consideration of societal, organizational and individual demands for appropriate use of individual differences in (primarily) initial placement of employees. Recruitment, and selection issues, the role of governmental regulations, and the role of individual factors in individual behavior are considered. Extensive coverage given to fundamental psycho-metric problems and the development of individual and organizational criteria of effectiveness.*

| | | | |
|---|---|---|---|
| PWI1 | Kenneth Yusko | Seats (Total: 40) | |
| | **Meets August 26, 2024 - November 15, 2024** | | |
| | M 5:00pm - 8:00pm | ONLINE | |
| | Class time/details on ELMs | ONLINE | Discussion |
| | *Must be in the Industrial/Organizational Psychology, Online (MPS). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | | |

**PSYC789K** **Special Research Problems; Multilevel Theory and Dynamics**

This Ph.D. level seminar will explore and critically examine principles,methodologies, and analytical approaches for research involving complex social/organizational systems and dynamics that span multiple levels of analysis (e.g., time, individual, dyad, team, organization, society). Topics of discussion include the historical foundations of research on social/organizational systems, methodologies and analytical tools for studying multilevel systems, and emerging techniques for representing dynamic phenomena in complex social/organizational systems. The goal of this course is to equip students with the requisite knowledge and skills for studying how human behavior, cognition, affect, and social interaction shape and are shaped over time in response to other actors and the environment, as well as how psychological, social, and organizational outcomes emerge from these processes.

| | | |
|---|---|---|
| 0101 | James Grand | Seats (Total: 20) |
| | M 1:00pm - 3:30pm | EGR 1110 |

**PSYC798P** **Graduate Seminar; Stereotyping and Prejudice**

Reviews the topics of stereotyping, prejudice, and discrimination from both perpetrators and targets perspectives. Topics will cover the psychological, social, and cultural processes that contribute to intergroup bias, responses to and consequences of intergroup bias, and how to intervene to reduce intergroup bias and its impact at the individual and structural level.

| | | |
|---|---|---|
| 0101 | Linda Zou | Seats (Total: 20) |
| | Tu 2:00pm - 4:30pm | BPS 1232 |

**PSYC799** **Master's Thesis Research; MASTERS THESIS RSRCH**

For PSYC majors only. For all non-psychology graduate students, written permission of the instructor and department is required.

**Contact department for information to register for this course.**

**PSYC888A** **Research Methods in Psychology; Developmental Seminar**

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|---|---|---|
| 0101 | Elizabeth Redcay | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**PSYC898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**PSYC899** **Doctoral Dissertation Research; Doctoral Dissertation Research**

(Perm req)

For PSYC majors only. For all non-psychology graduate students, written permission of the instructor and department is required.

**Contact department for information to register for this course.**

# RDEV Real Estate Development Fall 2024

**RDEV250** **People, Planet, and Profit: Building Sustainable Places**

*Cross-listed with: ARCH271. Credit only granted for: ARCH271 or RDEV250.*

*An introduction to the four disciplines represented in the School: architecture and urban design, community planning, historic preservation, and real estate development, that work to create a more sustainable environment for the future to create a more sustainable environment for the future using our interpretation of the quadruple bottom line: socio-cultural, economic, environmental, and design sustainability. Students will be provided with an understanding of the fundamental scholarship and processes of each of these disciplines and examine the intersections between them. Additionally, they will learn by applying the approaches of the four disciplines through a series of field studies.*

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|---|---|---|
| 0101 | Wayne Curtis | Seats (Total: 150) |
| | TuTh 3:30pm - 4:45pm | ARC 0204 |

**RDEV270** **Tax and Accounting for Real Estate Development**

(Perm req)

*Restriction: Permission of ARCH-Real Estate Development; and must not be in a major in the Robert H. Smith School of Business; and must not have completed BMGT210, BMGT220, or BMGT221.*

*An understanding of key tax and accounting principles and how they impact real estate development for students in the minor in real estate development is the purpose of this course. This course is geared for science, arts and humanities students who otherwise in their major would not take an accounting course as part of their major.*

| | | |
|---|---|---|
| 0101 | John Park | Seats (Total: 50) |
| | Tu 7:00pm - 9:40pm | ASY 2309 |

**RDEV350** **Real Estate Development: Introduction to Principles, Process, and Practice**

(Perm req)

*Prerequisite: RDEV250 or ARCH271. Restriction: Must be in the Real Estate and the Built Environment major or the Real Estate Development minor; and permission of ARCH-School of Architecture, Planning, & Preservation. Credit only granted for: RDEV150 or RDEV350. Formerly: RDEV150.*

*An introduction to the basic principles of real estate development: How real estate and communities get built and how value is created. The emphasis is on entrepreneurship and an experiential learning approach to the entrepreneurial real estate development process, principles, and practice.*

| | | |
|---|---|---|
| 0101 | Christopher Donald<br>M 7:00pm - 9:40pm | Seats (Total: 30)<br>ARC 1101 |
| 0102 | Jesse Saginor<br>M 7:00pm - 9:40pm | Seats (Total: 30)<br>ARC 1105 |

**RDEV440** **Principles of Urban Design for Real Estate Professionals**

(Perm req)

*Prerequisite: RDEV250 and RDEV350. Restriction: Must be in Real Estate and Built Environment Major; Permission of ARCH-Real Estate Development.*

*Introduces students to the design issues associated with development of the basic real property asset classes (office, retail, and residential) and the context driven forces that shape these different development types. Also introduces non-design students to the principles of visual literacy and the capacity of different property to support development in the effort to enhance a community.*

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|---|---|---|
| 0101 | Robert McClennan<br>Tu 7:00pm - 9:40pm | Seats (Total: 15)<br>ARC 1101 |

**RDEV450** **Foundations of Real Estate Finance and Investment**

(Perm req)

*Prerequisite: Must have completed RDEV270 or an approved accounting course with a grade of C- or better; and minimum grade of C- in RDEV350. Restriction: Must be enrolled in RDEV Minor; and permission of ARCH-School of Architecture, Planning, & Preservation.*

*Real Estate Finance and Investment addresses how real estate value is established, the fundamental foundations of the time value of money, as well as more real estate specific applications of return on investment, net operating income, the components of a real estate sources and uses statement, sources of real estate equity and debt financing, commonly used debt ratios and equity returns in real estate, as well as concepts of sensitivity analysis and exit strategies.*

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|---|---|---|
| 0101 | Thomas Dwyer<br>W 7:00pm - 9:40pm | Seats (Total: 10)<br>ARC 1103 |

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|---|---|---|
| 0102 | Kathryn Corby<br>W 7:00pm - 9:40pm | Seats (Total: 25)<br>ARC 1101 |
| 0103 | John Park<br>W 7:00pm - 9:40pm | Seats (Total: 30)<br>ARC 1105 |

**RDEV473** **Real Estate Case Study Competition**

(Perm req)

*Prerequisite: RDEV250, RDEV350, and RDEV450. Restriction: Must be in the Real Estate and the Built Environment major; and permission of ARCH-Real Estate Development.*

*The Colvin Institute of Real Estate Development hosts a case study competition. The Colvin Case Study Challenge is a national intercollegiate real estate case study competition for full or part-time students enrolled in a college or a university real estate program (undergraduate or graduate or a university sanctioned real estate club/organization). The Challenge is to document a recent innovative real estate project within the team's metropolitan region. Unlike many other case competitions, this is a post-development report and documentation of a recently completed project (or project phase). The Challenge is designed to hone professional skills and reveal the knowledge base and understanding of markets, project valuation, finance, urban design and sustainability, entitlement processes and operational issues. This course prepares students to participate in the competition.*

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|---|---|---|
| 0101 | Jesse Saginor<br>W 7:00pm - 9:40pm | Seats (Total: 12)<br>ASY 3219 |

**RDEV600** **Principles and Practice of Real Property Development**

(Perm req)

*Restriction: Permission of ARCH-Real Estate Development. Credit only granted for: RDEV688T or RDEV600. Formerly: RDEV688T.*

*An introduction to basic principles of real estate development: How real estate and communities get built and how value is created. The emphasis is on entrepreneurship and an experiential learning approach to the entrepreneurial real estate development process, principles, and practice.*

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|---|---|---|
| 0101 | Jesse Saginor<br>M 7:00pm - 9:40pm | Seats (Total: 19)<br>ARC 1105 |

**RDEV603** **Introduction to Real Property Finance**

(Perm req)

*Restriction: Permission of the Department. Credit only granted for: RDEV688Z, RDEV689V, or RDEV603. Formerly: RDEV688Z and RDEV689V.*

*Introduction to Real Property Finance addresses how real estate value is established, the fundamental foundations of the time value of money, as well as more real estate specific applications of return on investment, net operating income, the components of a real estate sources and uses statement, sources of real estate equity and debt financing, commonly used debt ratios and equity returns in real estate, as well as concepts of sensitivity analysis and exit strategies.*

| | | |
|---|---|---|
| 0101 | Thomas Dwyer<br>W 7:00pm - 9:40pm | Seats (Total: 10)<br>ARC 1103 |

**RDEV605** **Tax and Accounting for Real Property Developers**

(Perm req)

*Restriction: Permission of ARCH-Real Estate Development. Credit only granted for: RDEV688K or RDEV605. Formerly: RDEV688K.*

*This course is designed to familiarize students with taxation and accounting as it pertains to real estate development.*

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|---|---|---|
| 0101 | John Park<br>Tu 7:00pm - 9:40pm | Seats (Total: 18)<br>ASY 2309 |

**RDEV620** **Market Analysis for Real Property Development**

(Perm req)

*Restriction: Permission of ARCH-Real Estate Development. Credit only granted for: RDEV689M or RDEV620. Formerly: RDEV689M.*

*Designed to introduce and familiarize students with completing market analysis for real property projects. Includes a broad range of land uses including for-rent and for-sale residential, retail, office, and hospitality. Covers all aspects of completing a market analysis from the site visit to recommendations, and all the steps in-between. Examines how various real estate practitioners, such as developers, builders, investors, landowners, and public officials, utilize market studies.*

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|---|---|---|
| 0101 | Abigail Ferretti<br>M 7:00pm - 9:40pm | Seats (Total: 30)<br>ARC 1103 |

**RDEV640** **Principles of Urban Design for Real Property Developers**

(Perm req)

*Restriction: Permission of ARCH-Real Estate Development. Credit only granted for: RDEV688J or RDEV640. Formerly: RDEV688J.*

*Introduces students to the design issues associated with development of the basic real property asset classes (office, retail, and residential) and the context driven forces that shape these different development types. Also introduces non-design students to the principles of visual literacy and the capacity of different property to support development in the effort to enhance a community.*

| | | |
|---|---|---|
| 0101 | Robert McClennan<br>Tu 7:00pm - 9:40pm | Seats (Total: 15)<br>ARC 1101 |

**RDEV660** **Commercial Leasing for Real Property Developers**

(Perm req)

*Restriction: Permission of ARCH-Real Estate Development. Credit only granted for: RDEV688L or RDEV660. Formerly: RDEV688L.*

*Provides students with a hands-on look at commercial and real estate leases, lease provisions, and current market activity, a key factor in determining when and whether to proceed with developing a commercial property.*

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|---|---|---|
| 0101 | Andrew Rose, Suzanne White<br>W 7:00pm - 9:40pm | Seats (Total: 20)<br>ARC 1127 |

**RDEV670** **Negotiating Agreements & Resolving Conflicts when Developing Real Property**

(Perm req)

*Restriction: Permission of ARCH-Real Estate Development. Credit only granted for: RDEV688E or RDEV670. Formerly: RDEV688E.*

*Designed to develop students' negotiation and leadership skills for managing differences between individuals and groups while in the process of developing and operating real property. Includes a blend of skill-building exercises and theory discussions about the behavior of individuals to understand negotiation dynamics.*

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| 0101 | Ronald McDonald<br>M 7:00pm - 9:40pm | Seats (Total: 16)<br>ARC 1123 |

**RDEV688C** **Selected Topics in Real Estate Development; Real Estate Case Study Competition**

(Perm req)

*Selected topics in real estate development.*

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|---|---|---|
| 0101 | Jesse Saginor<br>Class time/details on ELMs | Seats (Total: 12)<br>ONLINE |

**RDEV689D** **Current Topics in Real Estate Development; Affordable Housing Asset Management**

(Perm req)

*Explores a focused aspect in any of the five major phases of real estate development: planning, finance, law, design, construction, or management.*

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|---|---|---|---|
| 0101 | David Jefferson<br>Th 7:00pm - 9:40pm | Seats (Total: 15)<br>ARC 1103 | |

**RDEV689Y** **Current Topics in Real Estate Development; Guided Real Estate Development Project**

(Perm req)

*Explores a focused aspect in any of the five major phases of real estate development: planning, finance, law, design, construction, or management.*

Prerequisite: Permission of the department.

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|---|---|---|
| 0101 | Georgeanne Matthews, Maria Day-Marshall<br>Contact instructor or department for details. | Seats (Total: 4) |

**RDEV690** **Capstone Project: Real Property Feasibility Study**

(Perm req)

*Prerequisite: Completion of at least 7 RDEV courses. Restriction: Permission of ARCH-Real Estate Development. Credit only granted for: RDEV688I or RDEV690. Formerly: RDEV688I.*

*The capstone course is designed to provide students with an opportunity to apply acquired classroom knowledge to real world conditions. Each student in the class will work separately to create a development proposal and feasibility study for an assigned property. For students doing a feasibility study of a development the study will address at least market analysis, entitlement process, construction, and financing for the project.*

| | | |
|---|---|---|
| 0101 | Tanya Bansal<br>Tu 7:00pm - 9:40pm | Seats (Total: 10)<br>ARC 1125 |

# RELS Religious Studies Fall 2024

**RELS120** **Islamic Civilization**

*Cross-listed with: HIST120. Credit only granted for: HIST120 or RELS120.*

*Introduction to society and culture in the Middle East since the advent of Islam: as a personal and communal faith; as artistic and literary highlights of intellectual and cultural life; and as the interplay between politics and religion under the major Islamic regimes.*

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|---|---|---|---|
| 0101 | Rachel Schine<br>MW 10:00am - 10:50am<br>F 9:00am - 9:50am | Seats (Total: 23)<br>ESJ 2212<br>TLF 2103 | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 0102 | Rachel Schine<br>MW 10:00am - 10:50am<br>F 10:00am - 10:50am | Seats (Total: 23)<br>ESJ 2212<br>TLF 2103 | Discussion |
| 0103 | Rachel Schine<br>MW 10:00am - 10:50am<br>F 12:00pm - 12:50pm | Seats (Total: 23)<br>ESJ 2212<br>TLF 2103 | Discussion |

**RELS133** **God Wills It! The Crusades in Medieval and Modern Perspectives**

*Cross-listed with: HIST133. Credit only granted for: HIST133, RELS133 or RELS289D. Formerly: RELS289D.*

*An examination of the identities and convictions both of the Western Europeans who participated in the Crusades and of the Easterners (Muslim, Christian, and Jewish) whom they encountered in the Holy Land. Focuses on the era of the first four great Crusades, from about 1095 to 1215. Consideration of the cultural impact of these movements on both Western Europe and the Middle East.*

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|---|---|---|---|
| 0101 | Janna Bianchini<br>MW 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 40)<br>KEY 0103<br>ONLINE | Discussion |

**RELS170** **Ancient Myths and Modern Lives**

*Cross-listed with: CLAS170. Credit only granted for: CLAS170 or RELS170. Additional information: This course cannot be taken for language credit.*

*What are myths and why do we tell them? What powers do myths have? We will tackle these questions by looking at the enduring and fascinating myths from ancient Greece and Rome. In addition to studying how they shaped ancient societies, we will also look at their modern influence and reflect upon the power that myths still hold in our contemporary world. Taught in English.*

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|---|---|---|---|
| 0101 | Jorge Bravo<br>MW 11:00am - 11:50am<br>F 10:00am - 10:50am | Seats (Total: 21)<br>SKN 0200<br>SKN 1115 | Discussion |
| 0102 | Jorge Bravo<br>MW 11:00am - 11:50am<br>Th 9:30am - 10:20am | Seats (Total: 21)<br>SKN 0200<br>JMZ 2120 | Discussion |
| 0103 | Jorge Bravo<br>MW 11:00am - 11:50am<br>Th 11:00am - 11:50am | Seats (Total: 21)<br>SKN 0200<br>PLS 1117 | Discussion |

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|---|---|---|---|
| 0104 | Jorge Bravo<br>MW 11:00am - 11:50am<br>Th 12:30pm - 1:20pm | Seats (Total: 21)<br>SKN 0200<br>PLS 1172 | Discussion |
| 0105 | Jorge Bravo<br>MW 11:00am - 11:50am<br>Th 12:30pm - 1:20pm | Seats (Total: 21)<br>SKN 0200<br>SYM 0209 | Discussion |
| 0106 | Jorge Bravo<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 21)<br>SKN 0200<br>SKN 1115 | Discussion |
| 0107 | Jorge Bravo<br>MW 11:00am - 11:50am<br>F 1:00pm - 1:50pm | Seats (Total: 21)<br>SKN 0200<br>EDU 3233 | Discussion |
| 0108 | Jorge Bravo<br>MW 11:00am - 11:50am<br>Th 11:00am - 11:50am | Seats (Total: 21)<br>SKN 0200<br>PHY 2211 | Discussion |
| 0109 | Jorge Bravo<br>MW 11:00am - 11:50am<br>Th 9:30am - 10:20am | Seats (Total: 22)<br>SKN 0200<br>PLS 1117 | Discussion |

**RELS171** **Is Judaism a Religion?**

*Cross-listed with: JWST171. Credit only granted for: JWST171 or RELS171.*

*Jewish identity can be framed in terms of ethnicity, culture, and religious practice, but also in terms of more contemporary social constructions including social action, political engagement, and intellectual pursuit. In the context of such diverse social and individual frames, what does it mean to identify Judaism as a religion? Attention to Jewish society in historical and global perspective will provide a backdrop for a particular focus on contemporary Jews in the United States and Israel.*

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|---|---|---|---|
| 0101 | Maxine Grossman<br>MW 2:00pm - 3:15pm | Seats (Total: 40)<br>KEB 1200 | |

**RELS225** **Religions of the Ancient Near East**

*Cross-listed with: HIST219I, JWST225. Credit only granted for: JWST225, HIST219I, RELS225, or RELS219A. Formerly: RELS219A.*

*Introduction to ancient Near Eastern religious systems and mythology, from the third millennium BCE through the fourth century BCE. Particular emphasis on Mesopotamia and ancient Israel.*

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|---|---|---|---|
| 0101 | Matthew Suriano<br>MW 3:30pm - 4:45pm | Seats (Total: 25)<br>HBK 0125 | |

**RELS269** **Special Topics in Study Abroad II**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**RELS269G** **Special Topics in Study Abroad II; From Asoka to Gandhi: Buddhism and Hinduism in Contemporary Society**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**RELS274** **Jerusalem in Antiquity: The History of Sacred Space in a Holy City**

*Cross-listed with: JWST274. Credit only granted for: JWST274, RELS274, JWST289J or RELS289J. Formerly: JWST289J, RELS289J.*

*Examines the complex history of Jerusalem's status as a holy city, with a focus on constructions of sacred space in Judaism, Christianity, and Islam.*

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|---|---|---|---|
| 0101 | Matthew Suriano<br>MW 11:00am - 11:50am<br>W 1:00pm - 1:50pm | Seats (Total: 20)<br>CHE 2110<br>JMP 2202 | Discussion |
| 0102 | Matthew Suriano<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 20)<br>CHE 2110<br>EGR 2154 | Discussion |
| 0103 | Matthew Suriano<br>MW 11:00am - 11:50am<br>F 12:00pm - 12:50pm | Seats (Total: 20)<br>CHE 2110<br>EGR 2154 | Discussion |
| 0104 | Matthew Suriano<br>MW 11:00am - 11:50am<br>W 2:00pm - 2:50pm | Seats (Total: 20)<br>CHE 2110<br>JMP 2202 | Discussion |

**RELS319K** **Special Topics in Religious Studies; The Roman Empire in Late Antiquity**

*Special topics in the study of religious history, literature, culture, and thought.*

Cross-listed with HIST319C. Credit only granted for RELS319K or HIST319C. Explores a famous historical conundrum Edward Gibbon (d. 1794) defined as The Decline and Fall of the Roman Empire. What historical forces, operating between the third century and the seventh, brought the high Classical civilization of the Greeks and Romans to an end? Was it the invasions of Germans and other barbarian peoples? The bubonic plague or climate disasters? Do we think our own societies and governments would respond to similar challenges? Or, was Gibbon wrong, and Rome never really "fell?"

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|---|---|---|
| 0101 | Elizabeth Conner | Seats (Total: 40) |
| | TuTh 12:30pm - 1:45pm | KEY 0103 |

**RELS341** **Europe in the High Middle Ages: 1000-1500**

*Cross-listed with: HIST331. Credit only granted for: HIST331 or RELS341.*

*Medieval civilization in the 11th through 15th centuries. Emphasis on cultural and political developments of the high Middle Ages with study of the principal sources of medieval thought and learning, art and architecture, and political theory prior to the Renaissance.*

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|---|---|---|
| 0101 | Janna Bianchini | Seats (Total: 30) |
| | MW 2:00pm - 3:15pm | JMZ 0122 |

**RELS342** **Renaissance Europe**

*Cross-listed with: HIST332. Credit only granted for: HIST332 or RELS342.*

*Intellectual developments in Italy and Northern Europe from 1300 to 1550 and their influence on the arts and religion; social and economic trends, including the rise of the commercial economy in cities; the family and the role of women in society; expansion of Europe overseas and the beginnings of colonization; emergence of the state and consequent changes in political theory.*

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| 0101 | Stefano Villani | Seats (Total: 30) |
| | TuTh 3:30pm - 4:45pm | KEY 0126 |

**RELS369C** **Special Topics in Study Abroad III; Between Tolerance and Conflict: Jewish, Christians and Muslims in the Iberian Peninsula**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**RELS369R** **Special Topics in Study Abroad III; Christianity and the Roman Empire (100-425CE)**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**RELS419Q** **Advanced Topics in Religious Studies; Sufism: History, Literature, and Politics of Islamic Mysticism**

*The contemporary study of religion in which topics may address specific religious traditions, regional or historical developments, or methodological and theoretical issues.*

Cross-listed with PERS498T, PERS689T, CMLT498T, HIST428Q, and HIST638Q. Credit only granted for PERS498T, PERS689T, CMLT498T, HIST428Q, HIST638Q, or RELS419Q. Provides an introduction to the history, literature, and politics of Sufism the Islamic "mystical" mode of piety from its origins to the modern period.

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|---|---|---|
| 0101 | Matthew Miller | Seats (Total: 25) |
| | Tu 12:30pm - 3:15pm | JMZ 0125 |

**RELS499** **Independent Study in Religious Studies**

*An advanced independent research project for qualified students, supervised by a faculty member, on a topic not ordinarily covered in available courses.*

**Contact department for information to register for this course.**

# RUSS Russian Fall 2024

**RUSS101** **Intensive Elementary Russian I**

*Prerequisite: Must have appropriate World Language Placement Test (WLPT) score. Restriction: Must not be a native/fluent speaker of Russian. Credit only granted for: RUSS101 or (RUSS111 and RUSS112).*

*This intensive first-year course is intended to develop the four skills: reading, writing, listening and speaking with an emphasis on communicative competence.*

This course has been put on a timed release system. Seats will be opended gradually by the registrar's office, to a total of 15 seats per section. If the course is full, please put yourself on the waitlist and contact Dr. Cynthia Martin (cmartin@umd.edu) for permission to enroll.

| | | |
|---|---|---|
| 0101 | Inna Hardman | Seats (Total: 15) |
| | MWF 10:00am - 10:50am | JMZ 0205 |
| | TuTh 9:30am - 10:45am | JMZ 0205 |
| 0201 | Inna Hardman | Seats (Total: 15) |
| | MWF 11:00am - 11:50am | JMZ 0205 |
| | TuTh 11:00am - 12:15pm | JMZ 0205 |

**RUSS201** **Intermediate Russian I**

*Prerequisite: RUSS102 or RUSS114; or must have appropriate World Language Placement Test (WLPT) score. Restriction: Must not be a native/fluent speaker of Russian.*

*Continued activation and expansion of skills and knowledge acquired in an elementary Russian course with the goal of communicative competence.*

If the course is full, please put yourself on the waitlist and contact Dr. Cynthia Martin (cmartin@umd.edu) for permission to enroll.

| | | |
|---|---|---|
| 0101 | Zhanna Gerus-Vernola | Seats (Total: 15) |
| | MWF 10:00am - 10:50am | JMZ 3122 |
| | TuTh 10:00am - 10:50am | JMZ 3122 |

**RUSS301** **Advanced Russian I**

*Prerequisite: RUSS202; or students who have taken courses with comparable content may contact the department. Restriction: Must not be a native/fluent speaker of Russian.*

*Advanced training in written Russian communicative structures.*

| | | |
|---|---|---|
| 0101 | Michael Lavery<br>MWF 10:00am - 10:50am | Seats (Total: 15)<br>JMZ 2125 |

**RUSS334** **Soviet Film: Propaganda, Myth, Modernism**

*Cross-listed with: CINE334. Credit only granted for: RUSS334, CINE334, or FILM334. Formerly: FILM334.*

*A Survey of Soviet film from the 1920s to 1991, focusing on important directors, genres, themes, and styles. Taught in English.*

| | | |
|---|---|---|
| 0101 | Elizabeth Papazian<br>MW 12:00pm - 1:50pm | Seats (Total: 25)<br>ESJ B0322 |

**RUSS386** **Experiential Learning**

(Perm req)

*Restriction: Junior standing or higher; and permission of ARHU-School of Languages, Literatures, and Cultures department.*

Contact the department to obtain section numbers.

**Contact department for information to register for this course.**

**RUSS398M** **Selected Topics in Russian Language and Literature; Linguistic Analysis of Russian to Improve Reading and Writing**

Analyzes the linguistic structure of Russian, including roots, word structure, grammar, syntax, word order and is intended to improve reading and writing skills. The course is open to students who have completed Russ202 or higher or who have equivalent proficiency in the Intermediate range.

| | | |
|---|---|---|
| 0101 | Cynthia Martin<br>TuTh 9:30am - 10:45am | Seats (Total: 15)<br>JMZ 1226 |

**RUSS401** **Advanced Russian Composition**

*Prerequisite: RUSS302; or students who have taken courses with comparable content may contact the department. Restriction: Not open to native speakers of Russian.*

*Approaches to argumentation, organization of information, contextualized grammar, appropriateness of lexical choice, genre, and register.*

| | | |
|---|---|---|
| 0101 | Cynthia Martin<br>TuTh 11:00am - 12:15pm | Seats (Total: 15)<br>JMZ 3122 |

**RUSS439W** **Selected Topics in Russian Literature; From Poem to Popular Song: Russian through Verse**

*Presentation of a topic in Russian literature.*

Prerequisite- RUSS202 The course explores the important tradition of Russian "verse" broadly conceived to include a historical perspective of important poets and poetic traditions and extends to an exploration of the modern manifestations of the use of "verse" in contemporary cultural products that include songs, memes, and various new media. Taught in Russian.

| | | |
|---|---|---|
| 0101 | Michael Lavery | Seats (Total: 15) |
| | MW 2:00pm - 3:15pm | JMZ 0120 |

**RUSS499** **Independent Study in Russian**

(Perm req)

*Independent study under faculty supervision.*

**Contact department for information to register for this course.**

# SLAA Second Language Acquisition and Application Fall 2024

**SLAA610** **Research and Theories in Second Language Acquisition**

*Introduction to current theories and research findings Second Language Acquisition (SLA).*

| | | |
|---|---|---|
| 0101 | Megan Masters | Seats (Total: 15) |
| | M 2:00pm - 4:30pm | JMZ 1103 |

**SLAA620** **Second Language Research Methodologies**

*Prerequisite: SLAA610; and must have completed or be concurrently enrolled in SLAA611.*

*An exploration of research methodology in second language acquisition (SLA), with a focus on developing practical skills in data analysis and interpretation. Preparation in both critical evaluation of existing research and design of new research models.*

| | | |
|---|---|---|
| 0101 | Bronson Hui | Seats (Total: 15) |
| | Th 2:00pm - 4:30pm | JMZ 1224 |

**SLAA640** **Psycholinguistics**

*Prerequisite: SLAA610; or permission of ARHU-School of Languages, Literatures, and Cultures department.*

*An introduction to the field of psycholinguistics that covers speech perception, word recognition, sentence and discourse processing, speech production, and language acquisition. Basic concepts, research methods, major research topics, leading theories and related research findings, with implications of psycholinguistic theories and findings for second language studies.*

| | | |
|---|---|---|
| 0101 | Nan Jiang | Seats (Total: 15) |
| | W 5:00pm - 7:30pm | JMZ 1103 |

**SLAA649R** **Special Topics in Second Language Acquisition; Research Critique**

*Current topics in research in second language acquisition.*

| | | |
|---|---|---|
| 0101 | Bronson Hui | Seats (Total: 15) |
| | Th 5:00pm - 7:30pm | JMZ 1103 |

**SLAA719** **Second Language Acquisition and Application Internship**

*Internship at a site to be determined. Topics may include heritage language learning, immersion education, testing and assessment, translation and interpretation, and national language planning and policy.*

**Contact department for information to register for this course.**

**SLAA742** **Second Language Processing**

*Restriction: Permission of instructor required for MA students.*

*Covers leading theoretical approaches and experimental methods in second language processing. Draws on research and theories in Second Language Acquisition (SLA), formal linguistics, cognitive grammar, psycholinguistics, and neurolinguistics.*

| | | |
|---|---|---|
| 0101 | Nan Jiang | Seats (Total: 15) |
| | Tu 2:00pm - 4:30pm | JMZ 1224 |

**SLAA749B** **Special Topics in Second Language Learning; Individual Differences in SLA**

*Current topics in research on Second Language Learning.*

This seminar is designed for MA and PhD students who are current or future researchers interested in individual differences (IDs) in second language acquisition (SLA). In addition to introducing students to relevant theoretical frameworks and approaches to studying major IDs-both classic, such as second-language (L2) aptitude, anxiety, and motivation, and more recent, such as L2 grit-the course will cover pertinent aspects of the study of L2 IDs such as: (a) conceptualization and measurement of latent vs. observed variables, (b) study design and instrumentation, (c) sampling and generalizability, and (e) validity andreliability. However, the focus of this seminar will be primarily substantive rather than methodological. The main assignment for the course will be a written research report of an empirical study with a focus on one (or more) IDs in SLA. MA and first-year PhD students are not required to conduct a full empirical study and have an option to do a proposal for the study instead.

| | | |
|---|---|---|
| 0101 | Ekaterina Sudina | Seats (Total: 15) |
| | M 5:00pm - 7:30pm | JMZ 3120 |

**SLAA779** **Directed Research in Second Language Acquisition and Application**

*Directed independent research in Second Language Acquisition or Application. In this capstone project, students engage in independent research under faculty direction.*

**Contact department for information to register for this course.**

**SLAA798** **Master's Independent Study**

**Contact department for information to register for this course.**

**SLAA799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**SLAA888** **Doctoral Independent Study**

*Individual instruction course.*

**Contact department for information to register for this course.**

**SLAA898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**SLAA899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

## SLLC School of Languages, Literatures and Cultures — Fall 2024

**SLLC169B** **Special Topics in Study Abroad I; Elementary Basque I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SLLC169C** **Special Topics in Study Abroad I; Elementary Basque II**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SLLC169D** **Special Topics in Study Abroad I; Great Czech Writers**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SLLC169L** **Special Topics in Study Abroad I; Basque Language and Culture**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SLLC208U** **Intermediate Less Commonly Taught Language I; Intermediate Ukrainian I**

(Perm req)

*Intermediate-level work on speaking, reading, and writing a less commonly taught language. Continued development of oral proficiency skills.*

This is a Big Ten Academic Alliance CourseShare course. The instructor is at Indiana University, but you enroll and receive credit for it at Maryland.

| | | |
|---|---|---|
| 0101 | Instructor: TBA<br>**Meets August 26, 2024 - December 20, 2024**<br>MWF 9:10am - 10:00am | Seats (Total: 5)<br><br>ONLINE |

**SLLC269B** **Special Topics in Study Abroad II; Scandinavian Moods in Cinema**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SLLC269D** **Special Topics in Study Abroad II; Catalan Language and Culture**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SLLC269X** **Special Topics in Study Abroad II; Intermediate Basque I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SLLC269Y** **Special Topics in Study Abroad II; Intermediate Basque II**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SLLC280** **Mythology of the Oppressed**

*Credit only granted for: SLLC280 or SLLC299J. Formerly: SLLC299J.*

*Does information drive human history? Mythological recurrences say much about cultures that had to adapt their world views while attempting to preserve them. This course examines the cognitive or social bases of mythology, to be pursued from insights in cultural and literary studies, linguistics, the cognitive sciences, paleo-anthropology, archeology, etc. The course is designed to help students think about complex problems from a humanistic perspective, making liberal use of the sciences.*

Restricted to Carillon Community Language students.

| | | |
|---|---|---|
| 0101 | Juan Uriagereka<br>TuTh 11:00am - 12:15pm<br>*Restricted to students in Carillon Communities. Once registered, students need an electronic stamp from an advisor to drop the course.* | Seats (Total: 35)<br>TWS 0207 |

**SLLC286** **Living the Good Life: Chinese Philosophy in the Modern World**

*Additional information: Taught in English.*

*Confucius, Mencius, Zhuangzi and other Chinese thinkers who lived more than 2,000 years ago would argue that the contemporary Western emphasis on self-discovery (Find yourself) and self-acceptance has led you astray. See what they have to say and discuss what relevance it has for the modern world as we study how early Chinese thinkers wrestled with questions of existence, morality, and governance. No previous knowledge of Chinese philosophy and history will be assumed and no prerequisites are required. We will discuss ideas that are both historical and relevant to students' lives. What is "the Way"? How do we cultivate spontaneity? Is there a stable self? How can we be more alive? These are questions important for ancient kings but also for UMD students choosing a major, or wondering how ARHU can benefit them.*

| | | |
|---|---|---|
| 0101 | Andrew Schonebaum<br>TuTh 2:00pm - 3:15pm | Seats (Total: 60)<br>ESJ 1215 |

**SLLC299R** **Special Topics in World Cultures; Elementary Italian I**

*Topic to be announced when course is offered.*

**Contact department for information to register for this course.**

**SLLC299Z** **Special Topics in World Cultures; Spanish Civilization and Culture**

*Topic to be announced when course is offered.*

**Contact department for information to register for this course.**

**SLLC309** **Language Partner Program**

(Perm req)

*For intermediate- to advanced-level language study. Conversations entirely in target language with native speaker.*

Students must be able to meet on September 09, 2024.

| | | |
|---|---|---|
| 0101 | Ahmed Hanafy<br>M 4:00pm - 5:50pm<br>Contact instructor or department for details.<br>*Arabic.* | Seats (Total: 10)<br>STM 0105 |
| 0102 | Ahmed Hanafy<br>M 4:00pm - 5:50pm<br>Contact instructor or department for details.<br>*Chinese.* | Seats (Total: 10)<br>STM 0105 |
| 0103 | Ahmed Hanafy<br>M 4:00pm - 5:50pm<br>Contact instructor or department for details.<br>*French.* | Seats (Total: 10)<br>STM 0105 |

| | | |
|---|---|---|
| 0104 | Ahmed Hanafy<br>M 4:00pm - 5:50pm<br>Contact instructor or department for details.<br>*German.* | Seats (Total: 10)<br>STM 0105 |
| 0105 | Ahmed Hanafy<br>M 4:00pm - 5:50pm<br>Contact instructor or department for details.<br>*Italian.* | Seats (Total: 10)<br>STM 0105 |
| 0106 | Ahmed Hanafy<br>M 4:00pm - 5:50pm<br>Contact instructor or department for details.<br>*Japanese.* | Seats (Total: 10)<br>STM 0105 |
| 0107 | Ahmed Hanafy<br>M 4:00pm - 5:50pm<br>Contact instructor or department for details.<br>*Korean.* | Seats (Total: 10)<br>STM 0105 |
| 0108 | Ahmed Hanafy<br>M 4:00pm - 5:50pm<br>Contact instructor or department for details.<br>*Portuguese.* | Seats (Total: 10)<br>STM 0105 |
| 0109 | Ahmed Hanafy<br>M 4:00pm - 5:50pm<br>Contact instructor or department for details.<br>*Russian.* | Seats (Total: 10)<br>STM 0105 |
| 0110 | Ahmed Hanafy<br>M 4:00pm - 5:50pm<br>Contact instructor or department for details.<br>*Spanish.* | Seats (Total: 10)<br>STM 0105 |
| 0111 | Ahmed Hanafy<br>M 4:00pm - 5:50pm<br>Contact instructor or department for details.<br>*Persian.* | Seats (Total: 10)<br>STM 0105 |

**SLLC329 Language House Immersion**

*Provides credit for students participating in the Language House Living-Learning program. It focuses on the further development of skills in the target language and the acquisition of cultural knowledge of the countries and communities where people speak the target language. It requires hands-on immersive linguistic and cultural activities led by a native-speaking mentor and supplements the learning that takes place in the language classroom and in the living-learning environment of the Language House.*

Restriction: Permission of the Language House Director and the related program Faculty Liaison; and must be in the Language House Immersion Program. This course provides credit for students participating in the Language House Living-Learning program. It focuses on the further development of skills in the target language and the acquisition of cultural knowledge of the countries and communities where people speak the target language. It requires hands-on immersive linguistic and cultural activities led by a native-speaking mentor and supplements the learning that takes place in the language classroom and in the living-learning environment of the Language House.

| | | |
|---|---|---|
| 0101 | Marilyn Matar<br>Contact instructor or department for details.<br>*Arabic* | Seats (Total: 10) |
| 0102 | Marilyn Matar<br>Contact instructor or department for details.<br>*Chinese* | Seats (Total: 10) |
| 0103 | Marilyn Matar<br>Contact instructor or department for details.<br>*French.* | Seats (Total: 11) |
| 0104 | Marilyn Matar<br>Contact instructor or department for details.<br>*German* | Seats (Total: 10) |
| 0105 | Marilyn Matar<br>Contact instructor or department for details.<br>*Italian* | Seats (Total: 10) |
| 0106 | Marilyn Matar<br>Contact instructor or department for details.<br>*Japanese* | Seats (Total: 10) |
| 0107 | Marilyn Matar<br>Contact instructor or department for details.<br>*Korean* | Seats (Total: 10) |

| | | |
|---|---|---|
| 0108 | Marilyn Matar<br>Contact instructor or department for details.<br>*Persian* | Seats (Total: 10) |
| 0109 | Marilyn Matar<br>Contact instructor or department for details.<br>*Russian* | Seats (Total: 10) |
| 0110 | Marilyn Matar<br>Contact instructor or department for details.<br>*Spanish* | Seats (Total: 17) |

**SLLC369A** **Special Topics in Study Abroad III; Alternative Culture, Literature, Music and Lifestyles**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SLLC369C** **Special Topics in Study Abroad III; Czech Film**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SLLC369D** **Special Topics in Study Abroad III; Art and Dictatorship**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SLLC369X** **Special Topics in Study Abroad III; Advanced Basque I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SLLC369Y** **Special Topics in Study Abroad III; Advanced Basque II**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

# SMLP Southern Management Leadership Program Fall 2024

**SMLP470** **Fundamentals of Entrepreneurial Ventures**

*Restriction: Restricted to students in the Southern Management Leadership Program. Credit only granted for: HLMN470, SMLP470, ENES460 or BMGT461. Formerly: HLMN470. Additional information: SMLP470 may not count toward any BMGT major or minor degree.*

*Learn the processes and skills needed to launch and manage start-up ventures, including technology startups. Assess the feasibility of a startup ventures, as well as how to apply best practices for planning, launching, and managing new companies by using real-world examples and in-depth case studies. Discuss a wide range of issues of importance and concern to entrepreneurs and learn to recognize opportunity, assess the skills and talents of successful entrepreneurs, and learn models and approaches that help navigate uncertainty.*

| | | |
|---|---|---|
| 0101 | Brooke Smith<br>F 1:00pm - 3:30pm | Seats (Total: 45)<br>ESJ 2101 |

**SMLP472** **Strategies for Innovation & Entrepreneurship**

*Restriction: Restricted to students in the Southern Management Leadership Program. Credit only granted for: HLMN472, SMLP472, BMGT467, or ENES463. Formerly: HLMN472. Additional information: SMLP472 may not count toward any BMGT major or minor degree.*

*Understand the process of technological change; the ways that firms come up with innovations; the strategies that firms use to benefit from innovation; and how to create new value not only through new products or services, but with novel technologies, business concepts, organizing structures, transaction/financing mechanisms, distribution channels, and market segmentation. Challenge students to think about how to create value and build a productive business organization with available resources (e.g. intelligence, insight, energy, initiative and personal relationships).*

| | | |
|---|---|---|
| 0101 | Sara Herald<br>F 1:00pm - 3:30pm | Seats (Total: 60)<br>ESJ 1215 |

# SOCY Sociology Fall 2024

**SOCY100** **Introduction to Sociology**

*Introduces fundamental concepts and theories of sociology. Guided by C. Wright Mills' "sociological imagination," the course promotes critical thinking; challenges conventional assumptions about culture politics, history, and psychology; and equips students with theoretical approaches and research methods to analyze various sociological topics, including family, work, education, religion, social movements, and issues related to class, gender, race, and ethnic inequalities.*

| | | |
|---|---|---|
| 0101 | Christopher Malackany<br>MWF 10:00am - 10:50am | Seats (Total: 120)<br>ASY 2203 |
| 0201 | Jeffrey Parsells-Johnson<br>TuTh 2:00pm - 3:15pm | Seats (Total: 120)<br>ONLINE |
| 0301 | Amelia Branigan<br>M 2:00pm - 3:15pm<br>W 2:00pm - 3:15pm | Seats (Total: 120)<br>ASY 2203<br>ONLINE |

| | | |
|---|---|---|
| 0401 | Jennifer Ashlock<br>TuTh 9:30am - 10:45am | Seats (Total: 120)<br>ASY 2203 |
| 0501 | Jeffrey Parsells-Johnson<br>M 2:00pm - 3:15pm<br>W 2:00pm - 3:15pm | Seats (Total: 120)<br>ONLINE<br>ASY 2203 |
| FC01 | Christopher Tamborini<br>M 6:00pm - 7:15pm<br>W 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 30)<br>SQH 1103<br>ONLINE |
| FC02 | Daniel Swann<br>TuTh 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 30)<br>EDU 1121 |

**SOCY105** **Understanding Contemporary Social Problems - Frameworks for Critical Thinking and Strategies for Solutions**

*Embark on an exploration of contemporary social issues and unravel the intricate ways in which these challenges are woven into the fabric of society. Develop a comprehensive understanding of societal organization and partake in a detailed study of selected social problems, with a specific emphasis on issues like social conflict and inequality. This course provides an insightful journey into the nuanced interplay between societal structure and prevalent challenges, fostering a heightened awareness of the dynamics shaping our social landscape.*

| | | |
|---|---|---|
| 0101 | Christopher Malackany<br>MWF 11:00am - 11:50am | Seats (Total: 60)<br>ASY 2309 |
| 0301 | Philip Cohen<br>TuTh 2:00pm - 3:15pm | Seats (Total: 60)<br>TWS 0320 |

**SOCY200** **Innovation, Exploration and the Evolution of Human Societies**

*We will explore the nature of human societies through comparative, historical, and interdisciplinary perspectives. Students will delve into the core of social structures, unravel the defining components of society, and examine their organization, evolution, and impact on collective existence. Students will also explore the socio-historical forces and geopolitical dynamics that drive social change to analyze the complex connections that illuminate our shared social experience across time.*

| | | |
|---|---|---|
| 0101 | Jeffrey Parsells-Johnson<br>MW 3:30pm - 4:45pm | Seats (Total: 120)<br>ASY 2203 |

**SOCY201** **Introductory Statistics for Sociology**

*Prerequisite: SOCY100; and (MATH107 or MATH111). Restriction: Must not have completed STAT400, BMGT231, or ENEE324.*

*Students will explore descriptive and inferential statistics. You will hone your quantitative analytical skills to construct impactful bivariate tables, craft frequency distributions, and decipher measures of central tendency and dispersion. Additionally, you will master the techniques of hypothesis testing, chi-square, ANOVA, and ordinary least squares regression, equipping you to seamlessly translate data into meaningful research insights.*

| | | | |
|---|---|---|---|
| 0201 | Meredith Kleykamp<br>TuTh 9:30am - 10:45am<br>F 10:00am - 11:50am | Seats (Total: 20)<br>ASY 3203<br>LEF 0227 | <br><br>Lab |
| 0202 | Meredith Kleykamp<br>TuTh 9:30am - 10:45am<br>F 12:00pm - 1:50pm | Seats (Total: 20)<br>ASY 3203<br>LEF 0227 | <br><br>Lab |

**SOCY202** **Introduction to Research Methods in Sociology**

*Prerequisite: SOCY100.*

*We will examine why social research is needed, explore some of the main quantitative and qualitative techniques to conduct sociological research, and discover how to understand and critically evaluate sociological research on pressing social problems. Students will also learn to use specialized software to analyze and interpret quantitative data in the computer lab.*

| | | | |
|---|---|---|---|
| 0101 | Kris Marsh<br>TuTh 9:30am - 10:45am<br>F 10:00am - 11:50am | Seats (Total: 30)<br>ASY 2309<br>ASY 3203 | <br><br>Lab |
| 0102 | Kris Marsh<br>TuTh 9:30am - 10:45am<br>F 12:00pm - 1:50pm | Seats (Total: 30)<br>ASY 2309<br>ASY 3203 | <br><br>Lab |

**SOCY203** **Sociological Theory**

*Prerequisite: SOCY100.*

*Examines major trends in the history and development of sociological thought, including theories of inequality, the self, institutions, and more. With each theorist students will learn what sociologists assume and focus on when studying societies.*

| | | | |
|---|---|---|---|
| 0101 | Brian Connor<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 78)<br>SQH 1120<br>ONLINE | |

**SOCY212** **Hate Crimes in the U.S.: What Lt. Richard Collins III Can Teach Us About History, Hope and Healing**

*Rooted in the tragic murder of Lt. Richard W. Collins III, a Bowie State student, on the campus of the University of Maryland by a white supremacist student, this course will provide an overview and discussion of the history of bias-motivated violence in the United States, the development of modern hate crime laws, theories and impacts of victimization, domestic terrorism, legal and social responses, and prevention strategies. Students from both Bowie State University and the University of Maryland will engage with experts from multiple disciplines and work together in a collaborative community to generate actionable strategies.*

Most class sessions will be held online. Some courses will be held in person at UMD. A precise schedule will be listed in advance.

| | | |
|---|---|---|
| 0101 | Jeanette Snider, Rashawn Ray<br>Tu 4:00pm - 6:30pm<br>Contact instructor or department for details. | Seats (Total: 30)<br>ONLINE |

**SOCY224** **Why are We Still Talking About Race?**

*Explore and discuss the major debates and assumptions that construct perceptions of race and how it matters. Sociological and social science theories will give students a historical and present day frame with which to view race and ethnic relations in the twenty-first century.*

| | | |
|---|---|---|
| 0101 | Kris Marsh<br>TuTh 8:00am - 9:15am | Seats (Total: 120)<br>ASY 2203 |
| 0201 | Muna Adem<br>TuTh 3:30pm - 4:45pm | Seats (Total: 45)<br>TWS 1107 |
| 0301 | Dawn Dow<br>MW 2:00pm - 3:15pm | Seats (Total: 45)<br>KEY 0126 |

**SOCY227** **Introduction to the Study of Deviance**

*Credit only granted for: SOCY227 or SOCY327. Formerly: SOCY327.*

*An introduction to the sociological study of deviant behavior, covering such topics as mental illness, sexual deviance, and the use of drugs.*

| | | |
|---|---|---|
| 0101 | Christopher Malackany<br>MW 3:30pm - 4:45pm | Seats (Total: 60)<br>ASY 2309 |

**SOCY230** **Sociological Social Psychology**

*Why do people do that? Sitting at the nexus of sociology and psychology, this course surveys the various ways in which sociologists have answered this question. We investigate individuals-for example, how they develop and understand themselves in relation to others, how they choose to present themselves to the world, and how they form thoughts and opinions. And we study larger units of analyses, from small groups to the broader society. Topics covered include socialization, identity formation, social influence, group processes, how social processes shape individual behavior, and how human behavior shapes society.*

| | | |
|---|---|---|
| 0101 | Nicholas Smith | Seats (Total: 160) |
| | TuTh 11:00am - 12:15pm | MMH 1400 |

**SOCY241** **Inequality in American Society**

*Credit only granted for: SOCY241 or SOCY441.*

*A broad-based overview of inequality in contemporary U.S. society, focusing on measuring patterns and trends over time. A series of learning modules familiarizes students with how inequality unfolds in relation to social stratification processes along the lines of race, gender, education and social class, income and wealth, and health.*

| | | |
|---|---|---|
| 0101 | Collin Mueller | Seats (Total: 80) |
| | MWF 2:00pm - 2:50pm | TWS 0310 |

**SOCY245** **The Family in Contemporary American Society**

*Credit only granted for: SOCY243 or SOCY245.*

*This is a course in the sociology of the family as an institutional arena in the United States. Students will become familiar with the empirical patterns and trends, political and cultural debates, and policy issues concerning families - and the major theories and research methods used in the sociological study of the family. The readings include a textbook and a research monograph. To succeed, students will attend lectures and participate in discussion; complete quizzes and in-class writing assignments; and take a midterm and final exam.*

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|---|---|---|
| 0101 | Philip Cohen | Seats (Total: 80) |
| | TuTh 11:00am - 12:15pm | ASY 2309 |

**SOCY277** **Intersectionality and Illness: How do Overarching Social Inequalities Affect Health Outcomes?**

*Credit only granted for: SOCY277 or SOCY302. Formerly: SOCY302.*

*Students will examine the social determinants of disease: the relationship between socioeconomic status and health care access, as well as investigate the links between social status and disease chronicity. Students will further explore how health disparities, health resource distribution, and susceptibility disproportionately affect disadvantaged communities with chronic diseases.*

| | | |
|---|---|---|
| 0101 | Nicole De Loatch<br>Tu 3:30pm - 4:45pm<br>Class time/details on ELMs | Seats (Total: 60)<br>ASY 2203<br>ONLINE |

**SOCY325** **The Sociology of Gender**

*Prerequisite: 3 credits in SOCY courses. Cross-listed with: WGSS325. Credit only granted for: SOCY325, WMST325 or WGSS325. Formerly: WMST325.*

*Institutional bases of gender roles and gender inequality, cultural perspectives on gender, gender socialization, feminism, and gender-role change. Emphasis on contemporary American society.*

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|---|---|---|
| 0101 | Kalani Johnson<br>MW 3:30pm - 4:45pm | Seats (Total: 20)<br>ASY 2115 |

**SOCY335** **Sociology of Health and Illness**

*An exploration of the social model to studying health and illness: how meanings and experiences of health and illness are socially produced. How experiences are shaped by the interaction of external social environments (culture, community) and the internal environment (human body), and by socio-demographic variables (race, class, gender, etc.). Disparities in health and healthcare delivery, medicalization of society, determinants of health, social construction of illness, and the social organization of health care.*

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|---|---|---|
| 0101 | Jennifer Ashlock<br>TuTh 2:00pm - 3:15pm | Seats (Total: 90)<br>ASY 2309 |

**SOCY340** **Globalization's Winners and Losers**

*What is the relationship between globalization and inequality? This course examines the factors shaping both between-nation and within-nation household income inequality for the past century. It is divided into four parts, each considering a different factor. First we seek to understand global trade historically. Second, we examine the more recent phenomenon of outsourcing. Third, we examine welfare and taxation policy and its role in shaping domestic inequality. Finally, we analyze the mechanisms for the accumulation of capital within global finance. By the end of the course, students will be able to discuss globalization beyond the "is it good or bad" binary and understand the complex interaction between domestic politics and international trade.*

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|---|---|---|
| 0101 | Julia Chuang<br>MWF 2:00pm - 2:50pm | Seats (Total: 80)<br>SQH 1120 |

**SOCY378** **Undergraduate Teaching Assistantship**

(Perm req)

*The Undergraduate Teaching Assistant position offers exceptional Sociology undergraduates the opportunity to actively contribute to the educational process. This hands-on role involves assisting faculty in classroom activities, mentoring fellow students, and supporting academic assignments and assessments. Throughout the course, students develop crucial teaching and communication skills, learn effective time management, and gain valuable teamwork experience. This position not only enhances students' resumes but also equips them with skills vital for future academic and professional roles. This is an individual instruction course; contact the department or instructor to obtain section number.*

**Contact department for information to register for this course.**

**SOCY380** **Honors Independent Reading in Sociology**

*Restriction: Permission of BSOS-Sociology department.*

*This course permits sociology honor students to undertake a program or reading on a particular problem in sociology or a subfield therein. The reading will be done under the supervision of a member of the sociology faculty. Required of sociology honor students.*

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|---|---|---|
| 0101 | Nicole De Loatch | Seats (Total: 5) |
| | Class time/details on ELMs | ONLINE |

**SOCY381** **Honors Independent Research in Sociology**

(Perm req)

*Prerequisite: SOCY380.*

*This course permits sociology students to define a particular problem in sociology or a subfield therein and to develop a research plan for use as a thesis topic. The work will be done under the supervision of a member of the sociology faculty.*

**Contact department for information to register for this course.**

**SOCY383** **Honors Thesis Research**

(Perm req)

*Prerequisite: SOCY381.*

*Student research under the direction of a member of the sociology faculty, culminating in the presentation and defense of a thesis reporting the research.*

**Contact department for information to register for this course.**

**SOCY386** **Experiential Learning**

(Perm req)

*Restriction: Permission of BSOS-Sociology department; and junior standing or higher.*

To register, students must have departmental permission form signed by instructor and by Coordinator of Sociology Undergraduate Program.

**Contact department for information to register for this course.**

**SOCY399** **Independent Study in Sociology**

(Perm req)

*Integrated reading or research under the direction and supervision of a faculty member. A maximum of 6 credits may be earned by a student for the same field experience in SOCY386 and SOCY399 combined.*

No more than 6 hours of 399 is allowed for credit.

**Contact department for information to register for this course.**

**SOCY410** **Social Demography**

*Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department.*

*Demography is the scientific study of human populations including their size, distribution, composition, and the processes that change these characteristics. Social demography examines how population processes interrelate with institutions in society, such as the family and the economy.*

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|---|---|---|
| 0101 | Julie Park | Seats (Total: 25) |
| | TuTh 11:00am - 12:15pm | TYD 1108 |

**SOCY424** **Sociology of Race Relations**

*Prerequisite: 6 credits in SOCY courses; or permission of the Sociology department. Cross-listed with: AAST424. Credit only granted for: SOCY424 or AAST424.*

*Encourages sociological thinking about US racial and ethnic minority populations, with a focus on African Americans, Latinos, Asian Americans, and Native Americans. The central concern is to understand and explain racial/ethnic inequality. A wide array of topics are discussed, including prejudice and discrimination, slavery, residential segregation, cultural inequality, skin tone stratification, economic and educational disparities, and assimilation/generational processes.*

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| 0101 | Wayne Santoro | Seats (Total: 29) |
| | MW 3:30pm - 4:45pm | ASY 3203 |

**SOCY432** **Social Movements**

*Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology department.*

*This course broadens students' understanding of social movements in the United States. Many topics are discussed, including the emergence of social movements, why people join social movements, collective identity, gender, culture, emotions, tactics, repression, and the decline of social movements. Various movements are reviewed, including the civil rights movement, the Chicano movement, the women's movement, the LGBTQ movement, the white power movement, the American Indian movement, and the animal rights movement.*

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|---|---|---|
| 0101 | Wayne Santoro | Seats (Total: 29) |
| | MW 2:00pm - 3:15pm | ASY 3203 |

**SOCY455** **Social Dimensions of Privacy and Surveillance**

*Prerequisite: 6 credits in SOCY courses; or permission of the department. Credit only granted for: SOCY391 or SOCY455.*

*Today, it is quite common in many spheres of life that we divulge personal information in exchange for something else. This course examines practices of surveillance in contemporary society in relationship to collective understandings of privacy. By the end of this course, students will be able to analyze privacy norms and practices in the age of mass surveillance, how surveillance produces inequalities in relation to privacy, and how definitions and regulations of privacy and surveillance change over time.*

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| 0101 | Brian Connor | Seats (Total: 29) |
| | MWF 1:00pm - 1:50pm | ASY 2309 |

**SOCY457** **Sociology of Law**

*Social, political, and cultural sources of legal norms and concepts; and how the law shapes society and society shapes the law using sociological theoretical frameworks. The role of social change, social reproduction and inequality (including race, class, gender, and sexuality) to achieve certain objectives such as compliance, deterrence and social control.*

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|---|---|---|
| 0101 | Dawn Dow | Seats (Total: 29) |
| | MW 3:30pm - 4:45pm | TYD 1102 |

**SOCY461** **Sociology in Action: Research and Community Engagement in Prince George's County**

*Prerequisite: SOCY202; or students who have taken courses with similar content may contact the department.*

*Sociology in Action is a research course that will use the science of sociology to inform real life issues and contribute to the development of social programs. In this course, students will gain hands-on experience in applying sociology by working with clients in Prince George's County on specific social problems and issues. Please assess your ability to commit to this course and fulfill all requirements. Given that students will be working with Prince George's County organizations, there will be some variation and unpredictability in the nature of the projects.*

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|---|---|---|
| 0101 | Amy McLaughlin | Seats (Total: 20) |
| | MW 2:00pm - 3:15pm | ASY 1213 |

**SOCY462** **Digital Technology and Society**

*Prerequisite: Must have completed 6 credits in SOCY courses; or permission of BSOS-Sociology department.*

*Situates digital technology in our social environment and then examines how this relationship reflects, reinforces, or reorders social hierarchies. Students will learn the conceptual and methodological foundations for studying and evaluating how technologies such as health and social media apps, the personal computer, artificial intelligence, and weapons of war have evolved, diffused and impacted social life. Students will explore and then conduct independent research on the relationship between technology and social inequalities through the lens of health and medicine, the environment and climate change, jobs and the workplace, as well as government and criminal justice.*

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|---|---|---|
| 0101 | Jennifer Ashlock | Seats (Total: 29) |
| | TuTh 12:30pm - 1:45pm | ASY 3203 |

**SOCY465** **The Sociology of War:  State and Society since the American Revolution**

*Prerequisite: Must have completed 6 credits in SOCY courses; or permission of BSOS-Sociology department. Credit only granted for: SOCY465 or SOCY265.*

*Since the American and French Revolutions at the end of the eighteenth century, warfare has been marked by the way national states draw ordinary people into armed conflicts--as members of the military, producers and controllers of resources and supporters or resisters, and also as targets and victims.  This course examines how the centering of ordinary people in war has transformed over time, continuing right up to the current conflict in Ukraine.  Alongside explaining why states make war the way they do, the course explores the impacts of making war and living through conflict on the societies embroiled in it.*

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| 0101 | Meyer Kestnbaum | Seats (Total: 29) |
| | TuTh 12:30pm - 1:45pm | TWS 0201 |

**SOCY475** **Sociology of Emotions**

*Prerequisite: 6 credits in SOCY courses; or permission of BSOS-Sociology Department. Credit only granted for: SOCY498W or SOCY475. Formerly: SOCY498W.*

*Emotions are often thought of as purely subjective experiences. How much more personal than one get than their emotions and feelings? In addition to their physiological and psychological aspects, however, emotions have a social side that often go unnoticed. This course will introduce you to the social aspects of emotions. In doing so, we will cover wide-ranging topics including the social causes of emotions, social norms about emotions, disparities in emotionalexperiences, and the ways in which emotions can maintain and reshape society.*

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|---|---|---|
| 0101 | Long Doan | Seats (Total: 29) |
| | TuTh 11:00am - 12:15pm | VMH 1203 |

**SOCY498X** **Selected Topics in Sociology; The American Working Class**

*Topics of special interest to advanced undergraduates in sociology. Such courses will be offered in response to student request and faculty interest.*

The 21st century has brought dramatic changes to the working class in the United States. Today's workers face a very different economy, politics, demography, and culture than the working class of themid-20th century. This course will review these changes; contrast them with the position of the American middle class; explore gender, racial, and geographic differences within these changes; and look to possible futures ahead.

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| 0101 | Reeve Vanneman, Amy McLaughlin | Seats (Total: 29) |
| | TuTh 2:00pm - 3:15pm | ASY 2115 |

**SOCY601** **Statistics For Sociological Research I**

*Prerequisite: SOCY201; or students who have taken courses with comparable content may contact the department. Restriction: Permission of instructor. Credit only granted for: SOCY601 and SURV601.*

*Introductory statistical concepts are covered including descriptive statistics, probability, sampling distributions, expected values, hypothesis testing, tests of significance, measures of association, and if time permits, introduction to regression analysis. Statistical programming software may be used.*

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| 0101 | Amelia Branigan | Seats (Total: 20) |
| | M 3:30pm - 6:00pm | ASY 4103 |

**SOCY610** **Logic of Social Inquiry**

*Restriction: Restricted to Sociology graduate students. Credit only granted for: SOCY699D or SOCY610. Formerly: SOCY699D.*

*An introductory course on the fundamental issues that arise in the design, execution, analysis, and writing stages of the research process. The course is designed to help first-year graduate students begin their transition from a consumer to a producer of social research.*

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| 0101 | Collin Mueller | Seats (Total: 20) |
| | W 3:30pm - 6:00pm | ASY 4103 |

**SOCY611** **Introduction to Demographic Methods**

*Survey of standard demographic methods for the description and analysis of population size, structure and composition, including techniques for the analysis of fertility, mortality and migration.*

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| 0101 | Michael Rendall | Seats (Total: 20) |
| | Th 3:30pm - 6:00pm | ASY 2115 |

**SOCY620** **Development of European and American Sociological Theory**

*Prerequisite: SOCY203 or SOCY403; or students who have taken courses with comparable content may contact the department; or permission of instructor.*

*Review of the history of sociological thought with major attention to the key figures (from Marx to C. Wright Mills).*

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|---|---|---|
| 0101 | Meyer Kestnbaum | Seats (Total: 20) |
| | Th 3:30pm - 6:00pm | ASY 4103 |

**SOCY632** **Introduction to Qualitative Research Methods**

*Restriction: Must be in Sociology (Doctoral) program; and permission of instructor.*

*An introductory course in qualitative research methods, intended to provide a general overview of the ways sociologists collect qualitative information about social phenomena, focusing on how to collect and anaylyze data that are reliable and applicable to our research questions. We will begin by constructing a research question that will drive our work for the entire semester. You will learn three of the main ways that qualitative data are used in sociological research: analysis of written material, participant observation, and open ended semi-structured interviews.*

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| 0101 | Julia Chuang | Seats (Total: 20) |
| | W 3:30pm - 6:00pm | ASY 1101 |

**SOCY646** **Public Image Management and Policy Solutions**

*Restriction: Must be in one of the following programs: Master of Professional Studies in Public Safety Leadership and Administration (MPLA); Criminology and Criminal Justice (Master's); Criminology and Criminal Justice (Doctoral); Sociology (Master's); Sociology (Doctoral); or permission from either the Sociology Department or Criminology & Criminal Justice Department.*

*Explores how to mitigate and solve image management problems that arise in organizations. Students will learn how to evaluate their organization, make recommendations for future development, and implement the practical aspects of the solution. Problems arise daily in organizations. Leaders need effective strategies to mitigate and solve these problems. While some problems are structural, daily problems often focus on social interactions among people. The course will focus on evaluating the source of problems, enhancing cultural competency among employees, restructuring and rebranding the organization, managing public image, and forming and implementing innovative policy solutions for long-term goals.*

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|---|---|---|
| PLL1 | Nicol Lee | Seats (Total: 20) |
| | Class time/details on ELMs | ONLINE |
| | *Must be in Graduate Programs in Public Safety Leadership and Administration or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.* | |

**SOCY657** **Constitutional Law and Public Safety**

*Restriction: Must be in one of the following programs: Master of Professional Studies in Public Safety Leadership and Administration (MPLA); Criminology and Criminal Justice (Master's); Criminology and Criminal Justice (Doctoral); Sociology (Master's); Sociology (Doctoral); or permission from BSOS-Criminology & Criminal Justice department.*

*Introduces students to the constitutional issues inherent in the practice of policing. Particular emphasis is placed on issues pertaining to the 4th, 5th, and 6th Amendments.*

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|---|---|---|---|
| PLL1 | Michael Vesely | Seats (Total: 20) | |
| | Class time/details on ELMs | ONLINE | |
| | *Must be in Graduate Programs in Public Safety Leadership and Administration or a graduate student in a Semester Academic Calendar program. Golden ID students are not eligible for this section.* | | |

**SOCY660** **Theories of Social Psychology**

*Prerequisite: Must have completed an undergraduate training in sociological research methods, statistics, and theory; or students who have taken courses with comparable content may contact the department.*

*An introduction to some of the theories in social psychology that are particularly useful to sociologists. Topics to be covered include theories of cognitive consistency, social exchange, symbolic interaction, role theory, group processes, and collective behavior.*

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|---|---|---|---|
| 0101 | Long Doan | Seats (Total: 20) | |
| | Tu 3:30pm - 6:00pm | ASY 4103 | |

**SOCY675** **Sociology of Emotions**

*Reviews the sociological literature on emotion. We will cover wide-ranging topics including the social causes of emotions, social norms about emotions, disparities in emotional experiences, and the ways in which emotions can maintain and reshape society.*

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|---|---|---|---|
| 0101 | Long Doan | Seats (Total: 5) | |
| | TuTh 11:00am - 12:15pm | VMH 1203 | |
| | Class time/details on ELMs | ONLINE | Discussion |

**SOCY699** **Special Social Problems**
**Contact department for information to register for this course.**

**SOCY699C** **Special Social Problems; Introduction to Computing for Sociologists**

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|---|---|---|---|
| 0101 | Amelia Branigan | Seats (Total: 20) | |
| | F 12:00pm - 1:50pm | LEF 0229 | Lab |

**SOCY699M** **Special Social Problems; Pro-Seminar for BA/MA Students**

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|---|---|---|---|
| 0101 | Brian Connor | Seats (Total: 5) | |
| | Class time/details on ELMs | ONLINE | |

**SOCY799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**SOCY898** **Pre-Candidacy Research**

(Perm req)

**Contact department for information to register for this course.**

**SOCY899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# SPAN Spanish Fall 2024

**SPAN103** **Intensive Elementary Spanish**

*Prerequisite: Must have appropriate World Language Placement (WLP) score. Restriction: Must not be a native/fluent speaker of Spanish. Native/fluent speakers of Spanish or students who have previously attended school in Spanish speaking countries should take the WLP and see the Spanish Undergraduate Advisor to identify the correct Spanish course for which to register. Credit only granted for: SPAN102 or SPAN103.*

*Develops students' communicative competence at the novice mid/high level of proficiency. Introduces students to global Hispanophone cultures.*

| | | |
|---|---|---|
| 0101 | Javier Catano Garcia<br>MWF 10:00am - 10:50am<br>Class time/details on ELMs | Seats (Total: 18)<br>JMZ 2120<br>ONLINE |
| | *This blended course meets face-to-face MWF and includes an online component that will be completed on Thursdays.* | |
| 0201 | Jose Cabrera<br>MWF 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 18)<br>JMZ 2120<br>ONLINE |
| | *This blended course meets face-to-face MWF and includes an online component that will be completed on Thursdays.* | |
| 0301 | Shadi Mohammadi<br>MWF 12:00pm - 12:50pm<br>Class time/details on ELMs | Seats (Total: 18)<br>JMZ 2120<br>ONLINE |
| | *This blended course meets face-to-face MWF and includes an online component that will be completed on Thursdays.* | |
| 0401 | Keven Garcia<br>MWF 1:00pm - 1:50pm<br>Class time/details on ELMs | Seats (Total: 18)<br>JMZ 1117<br>ONLINE |
| | *This blended course meets face-to-face MWF and includes an online component that will be completed on Thursdays.* | |

**SPAN169O** **Special Topics in Study Abroad I; Beginner Spanish I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN169P** **Special Topics in Study Abroad I; Beginner Spanish II**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN169X** **Special Topics in Study Abroad I; Elementary Spanish I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN169Y** **Special Topics in Study Abroad I; Elementary Spanish II**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN203** **Intensive Intermediate Spanish**

*Prerequisite: SPAN103; or must have appropriate World Language Placement (WLP) score. Restriction: Must not be a native/fluent speaker of Spanish. Native/fluent speakers of Spanish or students who have previously attended school in Spanish speaking countries should take the WLP and see the Spanish Undergraduate Advisor to identify the correct Spanish course for which to register.*

*Continues to develop students' communicative competence at the novice high/intermediate low level of proficiency. Furthers the introduction to global Hispanophone cultures.*

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|---|---|---|
| 0101 | Samus Price<br>MWF 9:00am - 9:50am<br>Class time/details on ELMs | Seats (Total: 20)<br>JMZ 3205<br>ONLINE |
| | *This blended course meets face-to-face MWF and includes an online component that will be completed on Thursdays.* | |
| 0201 | Ofelia Montelongo Valencia<br>MWF 10:00am - 10:50am<br>Class time/details on ELMs | Seats (Total: 20)<br>JMZ 2122<br>ONLINE |
| | *This blended course meets face-to-face MWF and includes an online component that will be completed on Thursdays.* | |
| 0301 | Ofelia Montelongo Valencia<br>MWF 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 20)<br>JMZ 2122<br>ONLINE |
| | *This blended course meets face-to-face MWF and includes an online component that will be completed on Thursdays.* | |

| | | |
|---|---|---|
| 0401 | Ramiro Caces Barbosa<br>MWF 12:00pm - 12:50pm<br>Class time/details on ELMs<br>*This blended course meets face-to-face MWF and includes an online component that will be completed on Thursdays.* | Seats (Total: 20)<br>JMZ 0208<br>ONLINE |
| 0501 | Ramiro Caces Barbosa<br>MWF 1:00pm - 1:50pm<br>Class time/details on ELMs<br>*This blended course meets face-to-face MWF and includes an online component that will be completed on Thursdays.* | Seats (Total: 20)<br>JMZ 3205<br>ONLINE |
| 0601 | Ofelia Montelongo Valencia<br>MWF 1:00pm - 1:50pm<br>Class time/details on ELMs<br>*This blended course meets face-to-face MWF and includes an online component that will be completed on Thursdays.* | Seats (Total: 20)<br>JMZ 2122<br>ONLINE |

**SPAN204** **Spanish Grammar Review**

*Prerequisite: SPAN203; or must have appropriate World Language Placement (WLP) score. Restriction: Must not be a native/fluent speaker of Spanish. Native/fluent speakers of Spanish or students who have previously attended school in Spanish speaking countries should take the WLP and see the Spanish Undergraduate Advisor to identify the correct Spanish course for which to register.*

*Further develops students' communicative competence at the intermediate mid/high level of proficiency. Fosters expanded knowledge of and appreciation for global Hispanophone cultures.*

| | | |
|---|---|---|
| 0201 | Samuel Aguayo<br>MWF 11:00am - 11:50am | Seats (Total: 18)<br>JMZ 3205 |
| 0301 | Samuel Aguayo<br>MWF 12:00pm - 12:50pm | Seats (Total: 18)<br>JMZ 1117 |
| 0401 | Chila Hidalgo<br>MWF 1:00pm - 1:50pm | Seats (Total: 18)<br>JMZ 0118 |

**SPAN206** **Spanish for Heritage Speakers I**

*Prerequisite: Native or near native knowledge of and no formal education in Spanish.*

*Review of oral and written Spanish for students who have native or near native knowledge of, but no formal education in Spanish. Taught in Spanish.*

Students new to language courses in SLLC must take the Foreign Language Placement Test in order to register.

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|---|---|---|
| 0101 | Evelyn Canabal-Torres<br>MWF 10:00am - 10:50am | Seats (Total: 18)<br>JMZ 1117 |

**SPAN207** **Reading and Writing in Spanish**

*Prerequisite: Must have completed or be concurrently enrolled in SPAN204; or must have appropriate World Language Placement Test (WLPT) score.*

*Selected readings with emphasis on reading comprehension and the development of reading strategies. Work in composition writing and a review of selected grammatical topics. Complements material of SPAN204.*

| | | |
|---|---|---|
| 0101 | Chila Hidalgo<br>MWF 10:00am - 10:50am | Seats (Total: 18)<br>JMZ 0118 |
| 0201 | Chila Hidalgo<br>MWF 11:00am - 11:50am | Seats (Total: 18)<br>JMZ 0118 |
| 0301 | Chila Hidalgo<br>MWF 12:00pm - 12:50pm | Seats (Total: 18)<br>JMZ 0118 |
| 0401 | Jackson Monzon<br>TuTh 9:30am - 10:45am | Seats (Total: 18)<br>JMZ 1215 |
| 0501 | Ana Cuevas Albarran<br>TuTh 11:00am - 12:15pm | Seats (Total: 18)<br>JMZ 1117 |

**SPAN234** **Issues in Latin American and Caribbean Studies I**

*Cross-listed with: LACS234, PORT234. Credit only granted for: LASC234, PORT234, SPAN234, or LACS234. Formerly: LASC234.*

*Interdisciplinary study of major issues in Latin America and the Caribbean, including Latin America's cultural mosaic, migration and urbanization. Democratization and the role of religions. Taught in English.*

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|---|---|---|
| 0101 | Francisco Barrenechea Cuadra<br>MW 3:30pm - 4:45pm | Seats (Total: 30)<br>SQH 1119 |

**SPAN234H** **Issues in Latin American and Caribbean Studies I**

*Cross-listed with: LACS234, PORT234. Credit only granted for: LASC234, PORT234, SPAN234, or LACS234. Formerly: LASC234.*

*Interdisciplinary study of major issues in Latin America and the Caribbean, including Latin America's cultural mosaic, migration and urbanization. Democratization and the role of religions. Taught in English.*

Open to Honor students only.

| | | |
|---|---|---|
| 0101 | Francisco Barrenechea Cuadra<br>MW 3:30pm - 4:45pm | Seats (Total: 5)<br>SQH 1119 |

**SPAN269A** **Special Topics in Study Abroad II; B1 Intermediate Level Spanish I**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN269B** **Special Topics in Study Abroad II; B1 Intermediate Level Spanish II**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN269D** **Special Topics in Study Abroad II; Catalan Language and Culture**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN269I** **Special Topics in Study Abroad II; Intermediate Spanish**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN269L** **Special Topics in Study Abroad II; Spanish Language B1**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN301** **Advanced Grammar and Composition I**

*Prerequisite: Must have completed or be concurrently enrolled in SPAN207.*

*Practice of complex grammatical structures through reading and writing of compositions and essays. Specific lexical, syntactic, rhetorical, and stylistic devices will be highlighted.*

| | | |
|---|---|---|
| 0101 | Ana Acedo Garcia<br>MWF 10:00am - 10:50am | Seats (Total: 20)<br>JMZ 2207 |
| 0201 | Maria Srur<br>MWF 11:00am - 11:50am | Seats (Total: 20)<br>JMZ 2207 |
| 0301 | Ana Acedo Garcia<br>MW 2:00pm - 3:15pm | Seats (Total: 20)<br>JMZ 2207 |

| | | |
|---|---|---|
| 0401 | Gianinna Malatesta<br>TuTh 9:30am - 10:45am | Seats (Total: 20)<br>JMZ 1117 |
| 0501 | Gianinna Malatesta<br>TuTh 11:00am - 12:15pm | Seats (Total: 20)<br>JMZ 1122 |

**SPAN302** **Advanced Grammar and Composition II**

*Prerequisite: SPAN301.*

*Practice in and writing of different types of compositions and essays, including narrations, descriptions, and persuasive writing. Review of problematic syntactical structures.*

**Contact department for information to register for this course.**

**SPAN303** **Approaches to Cultural Materials in the Hispanic World**

*Prerequisite: SPAN301. Recommended: May elect to take SPAN311 and/or SPAN316 in same semester as SPAN303.*

*Development of proficiency in critical thought through the reading, viewing, and analytical discussion of major genres and styles of cultural materials selected from Spanish-speaking world. Taught in Spanish.*

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|---|---|---|
| 0101 | Angela Pico Pinto<br>MWF 10:00am - 10:50am | Seats (Total: 20)<br>JMZ 0122 |
| 0201 | Angela Pico Pinto<br>MWF 1:00pm - 1:50pm | Seats (Total: 20)<br>JMZ 1224 |
| 0301 | Andrea Torres Armas<br>TuTh 9:30am - 10:45am | Seats (Total: 20)<br>JMZ 3205 |
| 0401 | Andrea Torres Armas<br>TuTh 11:00am - 12:15pm | Seats (Total: 20)<br>JMZ 1120 |
| 0501 | Jorge Bayas<br>TuTh 12:30pm - 1:45pm | Seats (Total: 20)<br>JMZ 0118 |
| 0601 | Jorge Bayas<br>TuTh 2:00pm - 3:15pm | Seats (Total: 20)<br>JMZ 2207 |

**SPAN306** **Spanish for Heritage Speakers II**

*Prerequisite: SPAN206.*

*Practice of complex grammatical structures through reading and writing of compositions and essays. Specific lexical, syntactic, rhetorical and stylistic devices will be highlighted. Designed for Spanish speakers educated in English. Taught in Spanish.*

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|---|---|---|
| 0101 | Evelyn Canabal-Torres<br>MWF 11:00am - 11:50am | Seats (Total: 25)<br>JMZ 0103 |

**SPAN311 Advanced Communication I**

*Prerequisite: SPAN301; and must have completed or be concurrently enrolled in SPAN303. Restriction: Must not be a native/fluent speaker of Spanish.*

*Further development of listening, speaking, and writing skills in Spanish. Opportunity to develop oral and written fluency, improve pronunciation and increase vocabulary. Individual and/or group oral presentations. Taught in Spanish.*

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|---|---|---|
| 0101 | Ana Acedo Garcia<br>MWF 11:00am - 11:50am | Seats (Total: 20)<br>JMZ 2123 |
| 0201 | Ana Acedo Garcia<br>MWF 12:00pm - 12:50pm | Seats (Total: 20)<br>JMZ 2207 |
| 0301 | Ginette Eldredge<br>TuTh 9:30am - 10:45am | Seats (Total: 20)<br>JMZ 1122 |
| 0401 | Tatiana Chi Miranda<br>TuTh 11:00am - 12:15pm | Seats (Total: 20)<br>JMZ 0122 |

**SPAN316 Spanish Translation I**

*Prerequisite: SPAN301; and must have completed or be concurrently enrolled in SPAN303.*

*Translation of texts into Spanish and/or English. Taught in Spanish.*

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|---|---|---|
| 0201 | Barbara Zocal Da Silva<br>TuTh 12:30pm - 1:45pm | Seats (Total: 20)<br>JMZ 2120 |

**SPAN317 Translation II**

*Prerequisite: SPAN316.*

*Translation of non-literary, non-technical texts into Spanish and/or English.*

**Contact department for information to register for this course.**

**SPAN325 Hispanic Linguistics I: Grammar and Society**

*Prerequisite: SPAN303; and (SPAN311 or SPAN316). Credit only granted for: SPAN310 or SPAN325. Formerly: SPAN310.*

*Sociolinguistic approach to Spanish grammar focusing on real-life exploration of the ways linguistic structures change and are used in different parts of the Spanish-speaking world. Taught in Spanish.*

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|---|---|---|
| 0101 | Elisa Gironzetti | Seats (Total: 25) |
| | MW 2:00pm - 3:15pm | JMZ 2122 |

**SPAN331** **Spanish Culture, Civilization and Literature I: Medieval Times**

*Prerequisite: SPAN303; and (SPAN311 or SPAN316).*

*The exploration of cultures of the Iberian Peninsula from its origins until the 15th century as well as the study of historical and political events that gave rise to the Spanish state. Taught in Spanish.*

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|---|---|---|
| 0101 | Ginette Eldredge | Seats (Total: 25) |
| | TuTh 12:30pm - 1:45pm | JMZ 2123 |

**SPAN332** **Spanish Culture, Civilization and Literature II: Renaissance and Baroque**

*Prerequisite: SPAN303; and (SPAN311 or SPAN316).*

*An overview of cultural and literary production of Spain from the late 15th through late 17th centuries, exploring the production of literary texts in their socio-historical, political, religious and cultural contexts and development. Taught in Spanish.*

**Contact department for information to register for this course.**

**SPAN333** **Spanish Culture, Civilization and Literature III: Modern Times**

*Prerequisite: SPAN303; and (SPAN311 or SPAN316).*

*An overview of cultural and literary production of Spain from the late 17th century through the present day, exploring the production of literary texts in their socio-historical, political, religious and cultural contexts and development. Taught in Spanish.*

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|---|---|---|
| 0101 | Mehl Penrose | Seats (Total: 25) |
| | MW 11:00am - 12:15pm | JMZ 0122 |

**SPAN359U** **Spanish for the Professions; Introduction to US Latinx Studies**

*Exploration of cultural and linguistic skills for different professional contexts including vocabulary, listening, speaking, reading and strategies. No experience in the professional area necessary. Taught in Spanish.*

Cross-listed with USLT498F. Credit only granted for SPAN359U or USLT498F. This class introduces you to the histories, struggles, and major issues pertaining to Latina/o/x/e communities in the United States through the lenses of language, expression, and representation. It intends to give you context to work in and with Latine communities. Class readings and discussions will be in Spanish and English. Writing will be in Spanish for Spanish minors and majors and in English for students in other majors. All are welcome!

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|---|---|---|
| 0101 | Ana Rodriguez<br>TuTh 11:00am - 12:15pm | Seats (Total: 20)<br>JMZ 2207 |

**SPAN361** **Latin American Literatures and Cultures I: From Pre-Columbian to Colonial Times**

*Prerequisite: SPAN303; and (SPAN311 or SPAN316).*

*Overview of cultural history of Latin America from pre-Columbian civilizations to the Colonial period, exploring the foundations of the Spanish American cultural and literary tradition to approximately 1770. Taught in Spanish.*

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|---|---|---|
| 0101 | Maria Herrera Arvay<br>MWF 10:00am - 10:50am | Seats (Total: 25)<br>JMZ 2123 |
| 0201 | Eyda Merediz<br>TuTh 11:00am - 12:15pm | Seats (Total: 25)<br>JMZ 3205 |

**SPAN362** **Latin American Literatures and Cultures II: From Independence to Nation Formation**

*Prerequisite: SPAN303; and (SPAN311 or SPAN316).*

*An overview of cultural and literary production of Latin America from the 18th Century to approximately 1900, exploring the production of literary texts in their socio-historical, political, and cultural contexts and development. Taught in Spanish.*

**Contact department for information to register for this course.**

**SPAN363** **Latin American Literatures and Cultures III: From Modernism to Neo-Liberalism**

*Prerequisite: SPAN303; and (SPAN311 or SPAN316).*

*An overview of cultural and literary production of Latin America from the late 19th through the early 21st centuries, exploring the production of literary texts in their socio-historical, political, and cultural contexts and development. Taught in Spanish.*

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|---|---|---|
| 0101 | Juan Quintero-Herencia<br>MW 1:00pm - 2:15pm | Seats (Total: 25)<br>JMZ 1122 |
| 0201 | Laura Demaria<br>TuTh 2:00pm - 3:15pm | Seats (Total: 25)<br>JMZ 1122 |

**SPAN369A** **Special Topics in Study Abroad III; Advanced Oral Communication in Spanish**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN369B** **Special Topics in Study Abroad III; Advanced Academic Writing in Spanish**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN369F** **Special Topics in Study Abroad III; Spanish Oral Skills through Theatre**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN369G** **Special Topics in Study Abroad III; Spanish for the Health Professional**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN369J** **Special Topics in Study Abroad III; Spanish Grammar and Expression**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN369M** **Special Topics in Study Abroad III; Spanish Language B2**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN369O** **Special Topics in Study Abroad III; Spanish Conversation and Oral Skills**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN369P** **Special Topics in Study Abroad III; Spanish Oral Techniques**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN369Q** **Special Topics in Study Abroad III; Spanish Phonetics and Phonology**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN369R** **Special Topics in Study Abroad III; Advanced Reading Skills in Spanish**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN369V** **Special Topics in Study Abroad III; Advanced Present-Day Spanish Usage**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN369W** **Special Topics in Study Abroad III; Spanish Stylistics: Advanced Spanish Writing and Stylistics**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN369Y** **Special Topics in Study Abroad III; B2 Advanced Level Spanish 1**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN369Z** **Special Topics in Study Abroad III; B2 Advanced Level Spanish 2**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**SPAN370** **Spanish for Business I**

*Prerequisite: SPAN303; and (SPAN311 or SPAN316). Credit only granted for: SPAN315 or SPAN370. Formerly: SPAN315.*

*Business Spanish terminology, vocabulary and practices. Emphasis on everyday spoken and written Spanish. Readings and discussions of Spanish commercial topics. May include exposure to Spanish commercial topics. May include exposure to Spanish business environments. Taught in Spanish.*

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|---|---|---|
| 0101 | Maria Herrera Arvay | Seats (Total: 25) |
| | MW 2:00pm - 3:15pm | JMZ 2123 |

**SPAN371** **Spanish for the Health Professions**

*Prerequisite: SPAN303; and (SPAN311 or SPAN316).*

*Exploration of cultural and linguistic skills for the health professions including vocabulary, listening, speaking, reading and strategies. No experience in the professional area necessary. Taught in Spanish.*

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|---|---|---|
| 0101 | Evelyn Canabal-Torres | Seats (Total: 25) |
| | MWF 12:00pm - 12:50pm | JMZ 2122 |

**SPAN372** **Spanish and the Law**

*Prerequisite: SPAN311 or SPAN316. Credit only granted for: SPAN372 or SPAN359O. Formerly: SPAN359O.*

*Offers students the opportunity to enhance Spanish linguistic and intercultural communication skills in contexts of legal practice through the translation of a variety of legal documents. Introduces Spanish legal terminology in areas such as immigration, consumer protection, and criminal/employment/housing/family law. Students will learn how to apply these language and cultural skills as future legal practitioners interacting with clients who possess limited English proficiency. Native or fluent guest participants will expose students to legal terminology, registers, and dialects from various Spanish-speaking countries. The goal of the class is to enable students to, at a minimum, conduct intake interviews in a culturally competent fashion with Spanish-speaking clients without the assistance of interpreters. The course is designed to be beneficial for students with varying levels of Spanish language ability, up to and including students who are native or heritage speakers of Spanish. Taught in Spanish*

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|---|---|---|
| 0101 | Jose Magro | Seats (Total: 20) |
| | MWF 1:00pm - 1:50pm | JMZ 2207 |

**SPAN374** **Spanish in the Community**

*Prerequisite: SPAN303; and (SPAN311 or SPAN316). Or permission of instructor. Credit only granted for: SPAN374 or SPAN359B. Formerly: SPAN359B.*

*Provides students with context for understanding, communicating with, and working with the Spanish-speaking community. Topics include Latino/a demographics, cultures, communities, work opportunities and local uses of Spanish. Requires outside service-learning work.*

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|---|---|---|
| 0101 | Ana Rodriguez<br>TuTh 9:30am - 10:45am | Seats (Total: 20)<br>JMZ 2207 |
| ESG1 | Ofelia Montelongo Valencia<br>Class time/details on ELMs<br>W 4:00pm - 5:15pm | Seats (Total: 25)<br>ONLINE<br>ONLINE |

*Restricted to students at Shady Grove. This course will meet synchronously online every other Wednesday. If you experience difficulty registering for this course, email spap-advise@umd.edu.*

**SPAN386** **Experiential Learning**

(Perm req)

*Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Junior standing or higher.*

**Contact department for information to register for this course.**

**SPAN388W** **Writing Center Internship**

(Perm req)

*Prerequisite: Permission of the Writing Center (1205 Tawes Hall). Repeatable to 12 credits. Cross-listed with: ENGL388W. Credit only granted for: ENGL388W or SPAN388W.*

*Examines face-to-face and online writing center theory and practice through readings, exercises, and supervised tutoring. Students investigate the writing process and help other writers to negotiate it.*

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|---|---|---|
| 0101 | Thomas Earles<br>M 3:30pm - 6:00pm | Seats (Total: 20)<br>TWS 0224 |
| 2001 | Thomas Earles<br>Contact instructor or department for details. | Seats (Total: 4) |

**SPAN399** **Independent Study in Spanish**

(Perm req)

*Specific readings in literature or a translation project under the supervision of a faculty member of the department.*

Prerequisite: permission of department.

**Contact department for information to register for this course.**

**SPAN401** **Advanced Composition I**

*Prerequisite: SPAN302; or permission of ARHU-School of Languages, Literatures, and Cultures department.*

*Compositions and essays with emphasis on stylistics, idiomatic and syntactic structures. Organization and writing of research papers.*

**Contact department for information to register for this course.**

**SPAN402** **Advanced Composition II**

*Prerequisite: SPAN401; or permission of ARHU-School of Languages, Literatures, and Cultures department.*

*Compositions and essays with emphasis on stylistics, idiomatic and syntactic structures. Organization and writing of research papers.*

**Contact department for information to register for this course.**

**SPAN408O** **Special Topics in Iberian and Latin American Studies; Tropical Dreams: Nature and Art in Brazil**

*Special topics in (a) the literature and film of Spain, Spanish-speaking Latin America, and U.S. Latina/o communities; (b) Spanish linguistics; and (c) Spanish, Latin American, and U.S. Latino cultural studies. Each topic will be announced when the course is offered.*

Cross-listed with PORT409A, LACS448Y, and SPAN609A. Credit only granted for PORT409A, LACS448Y, SPAN408O, or SPAN609A. Interdisciplinary examination of tropicality and nature tropes that have shaped current cultural, political, and environmental debates in Brazil. Taught in English.

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|---|---|---|
| 0101 | Thayse Leal Lima | Seats (Total: 30) |
| | TuTh 2:00pm - 3:15pm | JMZ 2123 |

**SPAN408Y** **Special Topics in Iberian and Latin American Studies; Contemporary Spanish Short Story**

*Special topics in (a) the literature and film of Spain, Spanish-speaking Latin America, and U.S. Latina/o communities; (b) Spanish linguistics; and (c) Spanish, Latin American, and U.S. Latino cultural studies. Each topic will be announced when the course is offered.*

**Contact department for information to register for this course.**

**SPAN409F** **Great Themes of the Hispanic Literatures; Literary Myths and Philosophy in the European Tradition**

*Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.*

**Contact department for information to register for this course.**

**SPAN409L** **Great Themes of the Hispanic Literatures; 20th Century and Contemporary Latin American Short Story**

*Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.*

**Contact department for information to register for this course.**

**SPAN409O** **Great Themes of the Hispanic Literatures; Images of Spain in Contemporary Cinema**

*Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.*

**Contact department for information to register for this course.**

**SPAN409W** **Great Themes of the Hispanic Literatures; Women Writers of Spain**

*Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.*

**Contact department for information to register for this course.**

**SPAN409X** **Great Themes of the Hispanic Literatures; The Spanish Mystery Novel**

*Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.*

**Contact department for information to register for this course.**

**SPAN409Y** **Great Themes of the Hispanic Literatures; Filmmaking in Spain**

*Pervading themes in the literature of Spain or Spanish-America. Each theme will be announced when the course is offered.*

**Contact department for information to register for this course.**

**SPAN422** **Intercultural Communication and Negotiation**

*Prerequisite: SPAN370 OR SPAN371 OR SPAN373 OR SPAN 374. Restriction: Junior standing or higher.*

*Focuses on the relationship of language and culture of those operating in world markets. Particular attention will be given to intercultural communication, linguistic systems, culture specific perceptions of, and negotiation with, the Spanish-speaking world. Taught in Spanish.*

**Contact department for information to register for this course.**

**SPAN425** **Hispanic Linguistics II: Structures of Spanish**

*Prerequisite: SPAN303; and SPAN311 or SPAN316 or SPAN325.*

*This course begins with an introduction to general concepts in linguistics, from language function and the brain to communication, culture, and thought, and their relation to other disciplines in the social sciences. The main purpose of this course is to provide an overview of Hispanic linguistics through multiple perspectives, while exploring the areas of Spanish morphology, syntax, and semantics. This course will also focus on the structural tendencies of Spanish through a variety of practical activities. Taught in Spanish.*

Jointly offered with SPAN625. Credit granted for SPAN425 or SPAN625.

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|---|---|---|
| 0101 | Manel Lacorte | Seats (Total: 25) |
| | TuTh 9:30am - 10:45am | JMZ 2122 |

**SPAN448U** **Special Topics in Latin American Civilization; Contemporary Images in Hispanic Caribbean Culture and Literature**

*Intensive independent study of a selected topic related to Latin American civilization.*

Prerequisite: SPAN331, SPAN332, SPAN333, SPAN361, SPAN362, or SPAN363. What is a Caribbean image? Does that thing exist, and what is made of? Moreover, can this image become an image on contemporary times? This course will face these questions as working hypothesis, not as rhetorical questions foreshadowing predictable answers. The course will discuss a selection of literary texts, music, videos and websites, as a way of opening up a conversation on the notion of contemporary times in the Hispanic Caribbean.

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|---|---|---|
| 0101 | Juan Quintero-Herencia | Seats (Total: 25) |
| | MW 11:00am - 12:15pm | JMZ 1122 |

**SPAN448V** **Special Topics in Latin American Civilization; Postrevolutionary Mexican Culture**

*Intensive independent study of a selected topic related to Latin American civilization.*

Prerequisite: SPAN331, SPAN332, SPAN333, SPAN361, SPAN362, or SPAN363. Mexico's Revolution of 1910 presented writers, artists, filmmakers, and architects with singular opportunities to reimagine the nation, cultural traditions, and the meaning of their own work. The decades following the Revolution were characterized by phenomena such as state support of the arts, sociopolitical ruptures and continuities, a greater emphasis on collaboration, socially oriented cultural production, and Mexico s role in international politics. This course presents students with ways of exploring the connections between art and politics from the 1920s to the 1950s. Topics include muralism, printmaking, avant-garde poetry, narrative fiction, a burgeoning film industry, and modernist architecture.

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|---|---|---|
| 0101 | Juan Diaz | Seats (Total: 20) |
| | TuTh 12:30pm - 1:45pm | JMZ 3205 |

**SPAN449J** **Special Topics in Spanish Civilization; Mosaic: Jews, Muslims and the Spanish Experience**

*An intensive study of a selected topic related to Spanish civilization.*

**Contact department for information to register for this course.**

**SPAN449Z** **Special Topics in Spanish Civilization; Barcelona/ Madrid: Literature & Film in the Contemporary City**

*An intensive study of a selected topic related to Spanish civilization.*

**Contact department for information to register for this course.**

**SPAN462** **Twentieth Century Drama**

*Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.*

*Significant plays of the twentieth century.*

**Contact department for information to register for this course.**

**SPAN464** **Contemporary Spanish Poetry**

*Prerequisite: SPAN333, SPAN361, SPAN331, SPAN332, SPAN362, or SPAN363.*

*Spanish poetry from the generation of 1927 to the present.*

**Contact department for information to register for this course.**

**SPAN469C** **Study Abroad Special Topics IV; Composition**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

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**SPAN469D** **Study Abroad Special Topics IV; Chilean History**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

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**SPAN478P** **Special Topics in United States Latino Cultures; Critical Language Pedagogy for Language Justice**

*Explores special topics in US Latino Cultures, ranging from Chicano, Nuyorican, Cuban-American, Dominican, Central-American and other border cultural identities.*

Cross-listed with SPAN687 and USLT498G. Credit only granted for SPAN478P, SPAN687, or USLT498G. Anchored in a critical interdisciplinary approach focusing on the sociopolitical and ideological dimensions of language, this course offers students the opportunity to explore and apply critical language teaching practices. Through socially responsive pedagogies, students will learn how to promote change towards equity and justice in the (language) classroom and beyond. The course includes a practical final project. Taught (mainly) in Spanish.

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|---|---|---|
| 0101 | Jose Magro | Seats (Total: 20) |
| | W 5:00pm - 7:30pm | Location: TBA |
| | W 5:00pm - 7:30pm | ONLINE |
| | *Taught synchronously online with 3 in-person meetings.* | |

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**SPAN479** **Honors Thesis**

(Perm req)

*Researching and writing an honors thesis under the direction of a professor.*

**Contact department for information to register for this course.**

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**SPAN495** **Honors Reading**

*Prerequisite: Must be in Spanish and Portuguese Honors; or permission of ARHU-School of Languages, Literatures, and Cultures department.*

*Supervised reading.*

**Contact department for information to register for this course.**

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**SPAN605** **Teaching Spanish I**

*Prerequisite: Permission of ARHU-School of Languages, Literatures, and Cultures department. Restriction: Must be a Spanish teaching assistant.*

*Methods and materials for teaching Spanish in higher education.*

Restricted to SPAP graduate students or by permission of instructor only.

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| 0101 | Elisa Gironzetti<br>M 4:00pm - 4:50pm | Seats (Total: 10)<br>JMZ 2207 |

**SPAN609A** **Medieval Spanish Literature; Tropical Dreams: Nature and Art in Brazil**

*Specific authors, genres, and literary periods studied in depth.*

Cross-listed with PORT409A, LACS448Y, and SPAN408O. Credit only granted for PORT409A, LACS448Y, SPAN408O, or SPAN609A. Interdisciplinary examination of tropicality and nature tropes that have shaped current cultural, political, and environmental debates in Brazil. Taught in English.

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|---|---|---|
| 0101 | Thayse Leal Lima<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>JMZ 2123 |

**SPAN625** **Introduction to Hispanic Linguistics I:Basic Concepts**

*Introduction to basic terms and definition in Hispanic Linguistics. Fundamental aspects of phonology, morphology, syntax, semantics, sociolinguistics, and pragmatics.*

Jointly offered with SPAN425. Credit granted for SPAN425 or SPAN625.

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|---|---|---|
| 0101 | Manel Lacorte<br>TuTh 9:30am - 10:45am | Seats (Total: 25)<br>JMZ 2122 |

**SPAN687** **Critical Language Pedagogy for Social Justice**

*Anchored in a critical interdisciplinary approach focusing on the sociopolitical and ideological dimensions of language, this course offers students the opportunity to explore and apply critical language teaching practices. Through socially responsive pedagogies, students will learn how to promote change towards equity and justice in the (language) classroom and beyond. The course includes a practical final project. Taught (mainly) in Spanish.*

Cross-listed with SPAN487 and USLT498G. Credit only granted for SPAN478P, SPAN687, or USLT498G.

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|---|---|---|
| 0101 | Jose Magro<br>W 5:00pm - 7:30pm<br>W 5:00pm - 7:30pm | Seats (Total: 20)<br>Location: TBA<br>ONLINE |
| | *Taught synchronously online with 3 in-person meetings.* | |

**SPAN699** **Independent Study in Spanish**

*This course is designed to provide graduate students an opportunity to pursue independent study under the supervision of a member of the department.*

**Contact department for information to register for this course.**

**SPAN798O** **Open Seminar; The Radical Naturalists**

Restriction: Must be a SPAN graduate student or have permission of the instructor to enroll. The self-described "Radical Naturalists" were a group of young Spanish writers who worked to achieve the culmination of Emile Zola's literary project and to reject the mainstream Catholic Naturalism dominating the Spanish literary scene in the 1880s and 1890s. We will explore the principal concerns and motives for writing in their novels, which manifested reactions to public discourse related to communal hygiene initiatives, the body, women's status, the nature of sexuality, and scientific debates on evolution, determinism, and experimental medicine. We will study, discuss, and apply current critical and theoretical approaches to the primary texts we read.

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| 0101 | Mehl Penrose | Seats (Total: 10) |
| | W 3:30pm - 6:00pm | JMZ 2207 |

**SPAN798Q** **Open Seminar; The Early Modern: Colonial and Transatlantic Crossroads**

Restriction: Must be a SPAN graduate student or have permission of the instructor to enroll. This course will explore the texts from the colonial period taking into consideration the moment of production but also theorizations within Latin American Colonial and Transatlantic Studies.

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|---|---|---|
| 0101 | Eyda Merediz | Seats (Total: 15) |
| | Tu 5:00pm - 7:30pm | JMZ 2207 |

**SPAN798U** **Open Seminar; Text and Image: An (Amphibian?) Approach**

Restriction: Must be a SPAN graduate student or hve permission of instructor to enroll. The course subtitle has been stolen. It belongs to contemporary Colombian writer Juan Cardenas whose poetic and pictorial narratives waves in between literature and visual arts. The purpose of this seminaris to critically reflect on this relation between images and words that seems to be central in some contemporary narratives from Latin America. In this seminar, we will explore this contact zone beyondtheoretical conceptualizations like ekphrasis, inter/trans/mediality, multimodality.

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| 0101 | Laura Demaria | Seats (Total: 15) |
| | Th 5:00pm - 7:30pm | JMZ 2207 |

**SPAN799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**SPAN898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**SPAN899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# SPHL Public Health Fall 2024

**SPHL100** **Foundations of Public Health**

*Restriction: Must be in a major in SPHL-School of Public Health. Credit only granted for: SPHL100, PHSC300 or SPHL600.*

*An overview of the goals, functions, and methods of public health. After an introduction to the core concepts and tools used in public health research and practice, applications of these methodologies are considered in the context of current controversies/problems in public health. Students work together to develop strategies for prevention and control that take into consideration different points of view, outside research, and impacts on individuals and communities.*

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|---|---|---|---|
| 0101 | Sylvette La Touche-Howard<br>MW 10:00am - 10:50am<br>Class time/details on ELMs<br>F 8:00am - 8:50am | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0303 | Discussion |
| 0102 | Sylvette La Touche-Howard<br>MW 10:00am - 10:50am<br>Class time/details on ELMs<br>F 9:00am - 9:50am | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0303 | Discussion |
| 0103 | Sylvette La Touche-Howard<br>MW 10:00am - 10:50am<br>Class time/details on ELMs<br>F 10:00am - 10:50am | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0303 | Discussion |
| 0104 | Sylvette La Touche-Howard<br>MW 10:00am - 10:50am<br>Class time/details on ELMs<br>F 11:00am - 11:50am | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0303 | Discussion |
| 0105 | Sylvette La Touche-Howard<br>MW 10:00am - 10:50am<br>Class time/details on ELMs<br>F 12:00pm - 12:50pm | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0303 | Discussion |
| 0106 | Sylvette La Touche-Howard<br>MW 10:00am - 10:50am<br>Class time/details on ELMs<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0303 | Discussion |
| 0107 | Sylvette La Touche-Howard<br>MW 10:00am - 10:50am<br>Class time/details on ELMs<br>F 2:00pm - 2:50pm | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0303 | Discussion |

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|---|---|---|---|
| 0108 | Sylvette La Touche-Howard<br>MW 10:00am - 10:50am<br>Class time/details on ELMs<br>F 3:00pm - 3:50pm | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0303 | Discussion |
| 0109 | Sylvette La Touche-Howard<br>MW 10:00am - 10:50am<br>Class time/details on ELMs<br>F 10:00am - 10:50am | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0227 | Discussion |
| 0110 | Sylvette La Touche-Howard<br>MW 10:00am - 10:50am<br>Class time/details on ELMs<br>F 11:00am - 11:50am | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0227 | Discussion |
| 0201 | Sylvette La Touche-Howard<br>MW 12:00pm - 12:50pm<br>Class time/details on ELMs<br>F 8:00am - 8:50am | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0307 | Discussion |
| 0202 | Sylvette La Touche-Howard<br>MW 12:00pm - 12:50pm<br>Class time/details on ELMs<br>F 9:00am - 9:50am | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0307 | Discussion |
| 0203 | Sylvette La Touche-Howard<br>MW 12:00pm - 12:50pm<br>Class time/details on ELMs<br>F 10:00am - 10:50am | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0307 | Discussion |
| 0204 | Sylvette La Touche-Howard<br>MW 12:00pm - 12:50pm<br>Class time/details on ELMs<br>F 11:00am - 11:50am | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0307 | Discussion |
| 0205 | Sylvette La Touche-Howard<br>MW 12:00pm - 12:50pm<br>Class time/details on ELMs<br>F 12:00pm - 12:50pm | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0307 | Discussion |

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|---|---|---|---|
| 0206 | Sylvette La Touche-Howard<br>MW 12:00pm - 12:50pm<br>Class time/details on ELMs<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0307 | Discussion |
| 0207 | Sylvette La Touche-Howard<br>MW 12:00pm - 12:50pm<br>Class time/details on ELMs<br>F 2:00pm - 2:50pm | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0307 | Discussion |
| 0208 | Sylvette La Touche-Howard<br>MW 12:00pm - 12:50pm<br>Class time/details on ELMs<br>F 3:00pm - 3:50pm | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0307 | Discussion |
| 0209 | Sylvette La Touche-Howard<br>MW 12:00pm - 12:50pm<br>Class time/details on ELMs<br>F 12:00pm - 12:50pm | Seats (Total: 20)<br>HJP 0226<br>ONLINE<br>SPH 0227 | Discussion |
| FC01 | Tracy Zeeger<br>TuTh 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection. Freshmen Connection students must send an email to fc@umd.edu to request permission to enroll in this section.* | Seats (Total: 35)<br>SPH 0308 | |

**SPHL246** **Terp Restoration**

(Perm req)

*Restriction: Students must be undergraduate majors within the School of Public Health; and permission of instructor.*

*This lab course is designed to assist students in improving academic strategies, learning time management practices, interacting with the faculty and greater campus community, and developing professional career aspirations. The focus will be on an exploration of the academic environment, campus resources, self-discovery tools, and skill development. Utilizing an interactive experience through facilitated discussion that develops positive relationships, students will actively explore academic opportunities offered through the School of Public Health and the University of Maryland.*

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|---|---|---|---|
| 0101 | April Khaing<br>Tu 11:00am - 12:15pm | Seats (Total: 20)<br>SPH 0116B | |

**SPHL308** **SPH Dean's Undergraduate Advisory Council**

*This course serves as a way to connect student members of the School of Public Health (SPH) Dean's Undergraduate Advisory Council (DUSAC). In this course, you will engage key stakeholders in SPH, identify a need within SPH, and propose a program that will address the need. During the fall and spring semesters, you will work with SPH and campus stakeholders to implement and evaluate the program.*

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|---|---|---|
| 0101 | Nicole Cousin-Gossett | Seats (Total: 15) |
| | M 4:30pm - 5:45pm | Location: TBA |

**SPHL333** **Fundamentals of Undergraduate Teaching for Education Assistants and Mentors (UTEAM)**

(Perm req)

*Corequisite: SPHL399. Restriction: Permission of the instructor; and permission of the School of Public Health. Additional information: This course must be taken concurrently with SPHL399 the first term in which a student is a UTA. Preference is given to students within an SPHL major.*

*Supports the professional and personal development of UG students in the UTEAM program. Must be completed concurrently with the first semester of providing UTEAM support to a specific course. UTEAM members are dedicated student learners who provide peer education support for specific course as part of the teaching team and emphasizes: 1) introduction to teaching, learning, literature and practice, 2) collaboration with other UTEAM members, faculty and staff as a learning community, and 3) reflection on the knowledge and skills developed through course participation.*

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|---|---|---|
| 0101 | Cynthia Kershaw | Seats (Total: 35) |
| | Class time/details on ELMs | ONLINE |

**SPHL399** **Academic Peer Teaching and Mentoring in Public Health**

*An independent study course for the Undergraduate Teaching and Mentoring (UTEAM) program within the School of Public Health. Students will apply evidence-based research while assisting peers with the understanding and application of course content. Specific responsibilities may vary dependent upon the course instructor. The primary roles of the UTEAM members will be to provide in-class support and/or external course support through review sessions, discussions sessions, laboratory support, group tutoring and office hours.*

**Contact department for information to register for this course.**

**SPHL600** **Foundations of Public Health**

*Restriction: Must be a graduate student within the School of Public Health. Credit only granted for: SPHL100, PHSC300 or SPHL600.*

*An overview of the goals, functions, and methods of public health. After an introduction to the core concepts and tools used in public health research and practice, applications of these methodologies are considered in the context of current controversies/problems in public health. Students work together to develop strategies for prevention and control that taken into consideration different points of view, outside research, and impacts on individuals and communities.*

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|---|---|---|---|
| 0101 | Sylvette La Touche-Howard<br>Class time/details on ELMs<br>Th 3:00pm - 4:00pm | Seats (Total: 12)<br>ONLINE<br>ONLINE | Discussion |
| PLP1 | Sylvette La Touche-Howard<br>Class time/details on ELMs<br>*Must be in Health Administration, Online. Golden ID students are not eligible for this section.* | Seats (Total: 35)<br>ONLINE | |

**SPHL601** **Core Concepts in Public Health**

*Restriction: Must be a Master's of Public Health (MPH) or Master's of Health Administration (MHA) student within the School of Public Health.*

*Introduces students to the history, functions, systems, policies, and models of public health practice in the United States and globally. The course offers seminars, interactive activities, and assessments aimed at establishing a baseline understanding of public health necessary for higher level and integrative learning in subsequent public health courses.*

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| 0101 | Danielle Catona<br>**Meets August 26, 2024 - October 15, 2024**<br>M 6:30pm - 8:30pm<br>Class time/details on ELMs | Seats (Total: 90)<br>SPH 1312<br>ONLINE | |
| PLB1 | Danielle Catona<br>**Meets October 16, 2024 - December 9, 2024**<br>Class time/details on ELMs<br>*Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | Seats (Total: 17)<br>ONLINE | |
| PLH1 | Danielle Catona<br>**Meets October 16, 2024 - December 9, 2024**<br>Class time/details on ELMs<br>*Must be in Public Health Practice and Policy, Online. Golden ID students are not eligible for this section.* | Seats (Total: 23)<br>ONLINE | |

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|---|---|---|
| PLK1 | Danielle Catona<br>**Meets October 16, 2024 - December 9, 2024**<br>Class time/details on ELMs | Seats (Total: 6)<br><br>ONLINE |
| | *Must be in Physical Activity, Online (MPH). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**SPHL602** **Foundations of Epidemiology and Biostatistics**

*Recommended: Recommend SPHL603 as a co-requisite course. Restriction: Must be a graduate student within the School of Public Health. Credit only granted for: SPHL602 or EPIB610 and EPIB650.*

*An introduction to conceptual and practical tools from epidemiology and biostatistics that are necessary for the study of public health problems. Students learn epidemiologic concepts and methods, and basic statistical concepts and procedures used in public health research through applications, hands-on experience, and interpretations of statistical findings.*

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|---|---|---|
| 0101 | Jamie Trevitt<br>MW 4:30pm - 6:15pm | Seats (Total: 94)<br>SPH 1312 |
| PLB1 | Jamie Trevitt<br>Class time/details on ELMs | Seats (Total: 17)<br>ONLINE |
| | *Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |
| PLH1 | Jamie Trevitt<br>Class time/details on ELMs | Seats (Total: 23)<br>ONLINE |
| | *Must be in Public Health Practice and Policy, Online. Golden ID students are not eligible for this section.* | |
| PLK1 | Jamie Trevitt<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE |
| | *Must be in Physical Activity, Online (MPH). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | |

**SPHL603** **Public Health Data Laboratory**

*Corequisite: SPHL602. Restriction: Must be a graduate student within the School of Public Health.*

*An introduction to the statistical software necessary to implement the epidemiology and biostatistics concepts covered in the course EPIB 602, Foundations of Epidemiology and Biostatistics through hands-on exercises.*

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|---|---|---|---|
| 0101 | Aaron Blakney, Jamie Trevitt | Seats (Total: 24) | |
| | W 6:30pm - 7:30pm | SPH 0302 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |
| 0102 | Jamie Trevitt | Seats (Total: 24) | |
| | W 6:30pm - 7:30pm | SPH 0308 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |
| 0103 | Aaron Blakney, Jamie Trevitt | Seats (Total: 24) | |
| | W 7:30pm - 8:30pm | Location: TBA | Lab |
| | Class time/details on ELMs | ONLINE | Lab |
| 0104 | Megan Trangsrud, Jamie Trevitt | Seats (Total: 24) | |
| | W 7:30pm - 8:30pm | Location: TBA | Lab |
| | Class time/details on ELMs | ONLINE | Lab |
| PLB1 | Jamie Trevitt | Seats (Total: 17) | |
| | Class time/details on ELMs | ONLINE | Lab |
| | *Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | | |
| PLH1 | Jamie Trevitt | Seats (Total: 23) | |
| | Class time/details on ELMs | ONLINE | Lab |
| | *Must be in Public Health Practice and Policy, Online. Golden ID students are not eligible for this section.* | | |
| PLK1 | Jamie Trevitt | Seats (Total: 5) | |
| | Class time/details on ELMs | ONLINE | Lab |
| | *Must be in Physical Activity, Online (MPH). All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | | |

**SPHL612** **Research Ethics**

*Restriction: Must be a graduate student in the School of Public Health. Credit only granted for: EPIB641, KNES689Y or SPHL612. Formerly: EPIB641, KNES689Y.*

*Overview and discussion of ethical issues that face public health researchers.*

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| 0101 | James Hagberg<br>**Meets August 26, 2024 - October 15, 2024**<br>F 9:00am - 10:50am | Seats (Total: 12)<br><br>SPH 0301 |

**SPHL620** **Leadership, Teams, and Coalitions: Policy to Advocacy**

*Prerequisite: Must have completed SPHL610. Restriction: Must be a graduate student in the School of Public Health.*

*Students learn team building, leadership, and advocacy skills through the development and presentation of a policy brief on an urgent public health issue. The class will use a combination of brief lectures, discussions, and planned activities on how to develop a policy briefing. Students will have an inter-professional experience during which they will discuss possible approaches to developing policies on their public health issues while practicing team building skills. Class will culminate with presentation of policy briefs through a persuasive advocacy speech.*

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| 0101 | Danielle Catona<br>M 6:45pm - 8:45pm<br>Class time/details on ELMs | Seats (Total: 90)<br>ATL 2400<br>ONLINE |
| PLB1 | Sherry Maykrantz<br>Class time/details on ELMs<br>*Must be in Behavioral and Community Health, Online. All other graduate students must request permission. Contact exst@umd.edu. Golden ID students are not eligible for this section.* | Seats (Total: 17)<br>ONLINE |
| PLH1 | Sherry Maykrantz<br>Class time/details on ELMs<br>*Must be in Public Health Practice and Policy, Online. Golden ID students are not eligible for this section.* | Seats (Total: 27)<br>ONLINE |
| PLK1 | Sherry Maykrantz<br>Class time/details on ELMs | Seats (Total: 6)<br>ONLINE |

# STAT Statistics and Probability Fall 2024

**STAT100** **Elementary Statistics and Probability**

*Prerequisite: MATH110, MATH112, MATH113, or MATH115; or permission of CMNS-Mathematics department; or must have math eligibility of STAT100 or higher and math eligibility is based on the Math Placement Exam or the successful completion of Math 003 with appropriate eligibility. Restriction: Must not have completed MATH111; or must not have completed any STAT course with a prerequisite of MATH141. Cross-listed with: DATA100. Credit only granted for: DATA100 or STAT100.*

*Simplest tests of statistical hypotheses; applications to before-and-after and matched pair studies. Events, probability, combinations, independence. Binomial probabilities, confidence limits. Random variables, expected values, median, variance. Tests based on ranks. Law of large numbers, normal approximation. Estimates of mean and variance.*

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|---|---|---|---|
| 0111 | Matthew Griffin<br>MWF 11:00am - 11:50am<br>M 9:30am - 10:45am | Seats (Total: 27)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0112 | Matthew Griffin<br>MWF 11:00am - 11:50am<br>M 12:30pm - 1:45pm | Seats (Total: 27)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0121 | Matthew Griffin<br>MWF 11:00am - 11:50am<br>Tu 9:30am - 10:45am | Seats (Total: 28)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0122 | Matthew Griffin<br>MWF 11:00am - 11:50am<br>Tu 11:00am - 12:15pm | Seats (Total: 28)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0123 | Matthew Griffin<br>MWF 11:00am - 11:50am<br>Tu 12:30pm - 1:45pm | Seats (Total: 27)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0124 | Matthew Griffin<br>MWF 11:00am - 11:50am<br>Tu 2:00pm - 3:15pm | Seats (Total: 26)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0131 | Matthew Griffin<br>MWF 11:00am - 11:50am<br>W 9:30am - 10:45am | Seats (Total: 25)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0132 | Matthew Griffin<br>MWF 11:00am - 11:50am<br>W 12:30pm - 1:45pm | Seats (Total: 27)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0141 | Matthew Griffin<br>MWF 11:00am - 11:50am<br>Th 12:30pm - 1:45pm | Seats (Total: 27)<br>ESJ 0224<br>PHY 4206 | Discussion |

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| 0211 | Matthew Griffin<br>MWF 12:00pm - 12:50pm<br>M 9:30am - 10:45am | Seats (Total: 28)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0212 | Matthew Griffin<br>MWF 12:00pm - 12:50pm<br>M 2:00pm - 3:15pm | Seats (Total: 27)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0221 | Matthew Griffin<br>MWF 12:00pm - 12:50pm<br>Tu 9:30am - 10:45am | Seats (Total: 26)<br>ESJ 0224<br>PHY 1204 | Discussion |
| 0222 | Matthew Griffin<br>MWF 12:00pm - 12:50pm<br>Tu 11:00am - 12:15pm | Seats (Total: 28)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0223 | Matthew Griffin<br>MWF 12:00pm - 12:50pm<br>Tu 12:30pm - 1:45pm | Seats (Total: 28)<br>ESJ 0224<br>HBK 0123 | Discussion |
| 0224 | Matthew Griffin<br>MWF 12:00pm - 12:50pm<br>Tu 2:00pm - 3:15pm | Seats (Total: 28)<br>ESJ 0224<br>HBK 0123 | Discussion |
| 0231 | Matthew Griffin<br>MWF 12:00pm - 12:50pm<br>W 9:30am - 10:45am | Seats (Total: 26)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0241 | Matthew Griffin<br>MWF 12:00pm - 12:50pm<br>Th 9:30am - 10:45am | Seats (Total: 26)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0242 | Matthew Griffin<br>MWF 12:00pm - 12:50pm<br>Th 11:00am - 12:15pm | Seats (Total: 25)<br>ESJ 0224<br>PHY 4206 | Discussion |
| 0311 | Archana Khurana<br>MWF 2:00pm - 2:50pm<br>M 11:00am - 12:15pm | Seats (Total: 29)<br>ESJ 0224<br>MTH 0401 | Discussion |

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|---|---|---|---|
| 0312 | Archana Khurana<br>MWF 2:00pm - 2:50pm<br>M 12:30pm - 1:45pm | Seats (Total: 30)<br>ESJ 0224<br>MTH 0401 | Discussion |
| 0321 | Archana Khurana<br>MWF 2:00pm - 2:50pm<br>W 11:00am - 12:15pm | Seats (Total: 29)<br>ESJ 0224<br>MTH 0401 | Discussion |
| 0322 | Archana Khurana<br>MWF 2:00pm - 2:50pm<br>W 12:30pm - 1:45pm | Seats (Total: 30)<br>ESJ 0224<br>MTH 0401 | Discussion |
| 0331 | Archana Khurana<br>MWF 2:00pm - 2:50pm<br>Th 9:30am - 10:45am | Seats (Total: 30)<br>ESJ 0224<br>MTH 0407 | Discussion |
| 0332 | Archana Khurana<br>MWF 2:00pm - 2:50pm<br>Th 11:00am - 12:15pm | Seats (Total: 29)<br>ESJ 0224<br>PHY 0405 | Discussion |
| 0333 | Archana Khurana<br>MWF 2:00pm - 2:50pm<br>Th 12:30pm - 1:45pm | Seats (Total: 30)<br>ESJ 0224<br>MTH 0304 | Discussion |
| 0334 | Archana Khurana<br>MWF 2:00pm - 2:50pm<br>Th 2:00pm - 3:15pm | Seats (Total: 28)<br>ESJ 0224<br>MTH 0411 | Discussion |
| FC01 | Yue Dong<br>MW 3:00pm - 4:15pm<br>Tu 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 34)<br>PLS 1140<br>MTH 0101 | Discussion |
| FC02 | Yue Dong<br>MW 3:00pm - 4:15pm<br>Th 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 34)<br>PLS 1140<br>MTH 0101 | Discussion |

**STAT110** **Applications of R for Data Science**

*Prerequisite: DATA100, STAT100, or MATH135; or any 400-level STAT course. Cross-listed with: DATA110. Credit only granted for: STAT110 or DATA110.*

*Intended to prepare students for subsequent courses requiring computation with R, providing powerful and easy to use tools for statistical data analysis. Covers basics of R and R Studio including file handling, data simulation, graphical displays, vector and function operations, probability distributions, and inferential techniques for data analysis.*

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| 0101 | Susan Mazzullo<br>**Meets August 26, 2024 - October 20, 2024**<br>Class time/details on ELMs | Seats (Total: 210)<br><br>ONLINE |

**STAT386** **Experiential Learning**

(Perm req)

*Prerequisite: Must have learning proposal approved by the CMNS-Mathematics Department.*

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|---|---|---|
| 2801 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 10) |
| 3903 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 10) |
| 5001 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 10) |

**STAT400** **Applied Probability and Statistics I**

*Prerequisite: 1 course with a minimum grade of C- from (MATH131, MATH141); or students who have taken courses with comparable content may contact the department. Cross-listed with: DATA400. Credit only granted for: DATA400, ENEE324, or STAT400. Additional information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.*

*Random variables, standard distributions, moments, law of large numbers and central limit theorem. Sampling methods, estimation of parameters, testing of hypotheses.*

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| 0111 | Jonathan Fernandes<br>MWF 1:00pm - 1:50pm<br>Tu 1:00pm - 1:50pm | Seats (Total: 27)<br>PHY 1412<br>MTH 0104 | <br><br>Discussion |
| 0112 | Jonathan Fernandes<br>MWF 1:00pm - 1:50pm<br>Tu 1:00pm - 1:50pm | Seats (Total: 29)<br>PHY 1412<br>MTH 0304 | <br><br>Discussion |
| 0113 | Jonathan Fernandes<br>MWF 1:00pm - 1:50pm<br>Tu 1:00pm - 1:50pm | Seats (Total: 28)<br>PHY 1412<br>PHY 2106 | <br><br>Discussion |

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| 0121 | Jonathan Fernandes<br>MWF 1:00pm - 1:50pm<br>Tu 2:00pm - 2:50pm | Seats (Total: 27)<br>PHY 1412<br>MTH 0104 | Discussion |
| 0122 | Jonathan Fernandes<br>MWF 1:00pm - 1:50pm<br>Tu 2:00pm - 2:50pm | Seats (Total: 29)<br>PHY 1412<br>MTH 0304 | Discussion |
| 0123 | Jonathan Fernandes<br>MWF 1:00pm - 1:50pm<br>Tu 2:00pm - 2:50pm | Seats (Total: 28)<br>PHY 1412<br>PHY 2106 | Discussion |
| 0131 | Jonathan Fernandes<br>MWF 1:00pm - 1:50pm<br>Tu 3:00pm - 3:50pm | Seats (Total: 27)<br>PHY 1412<br>MTH 0104 | Discussion |
| 0132 | Jonathan Fernandes<br>MWF 1:00pm - 1:50pm<br>Tu 3:00pm - 3:50pm | Seats (Total: 29)<br>PHY 1412<br>MTH 0304 | Discussion |
| 0133 | Jonathan Fernandes<br>MWF 1:00pm - 1:50pm<br>Tu 3:00pm - 3:50pm | Seats (Total: 28)<br>PHY 1412<br>PHY 2106 | Discussion |
| 0211 | Mestiyage Gunatilleka<br>TuTh 9:30am - 10:45am<br>M 9:00am - 9:50am | Seats (Total: 29)<br>ARM 0126<br>MTH B0427 | Discussion |
| 0212 | Mestiyage Gunatilleka<br>TuTh 9:30am - 10:45am<br>M 9:00am - 9:50am | Seats (Total: 28)<br>ARM 0126<br>MTH 0304 | Discussion |
| 0213 | Mestiyage Gunatilleka<br>TuTh 9:30am - 10:45am<br>M 9:00am - 9:50am | Seats (Total: 28)<br>ARM 0126<br>PHY 2214 | Discussion |
| 0221 | Mestiyage Gunatilleka<br>TuTh 9:30am - 10:45am<br>M 10:00am - 10:50am | Seats (Total: 28)<br>ARM 0126<br>MTH B0427 | Discussion |

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| 0222 | Mestiyage Gunatilleka<br>TuTh 9:30am - 10:45am<br>M 10:00am - 10:50am | Seats (Total: 29)<br>ARM 0126<br>MTH 0304 | Discussion |
| 0223 | Mestiyage Gunatilleka<br>TuTh 9:30am - 10:45am<br>M 10:00am - 10:50am | Seats (Total: 28)<br>ARM 0126<br>PHY 2214 | Discussion |
| 0231 | Mestiyage Gunatilleka<br>TuTh 9:30am - 10:45am<br>M 11:00am - 11:50am | Seats (Total: 29)<br>ARM 0126<br>MTH B0427 | Discussion |
| 0232 | Mestiyage Gunatilleka<br>TuTh 9:30am - 10:45am<br>M 11:00am - 11:50am | Seats (Total: 29)<br>ARM 0126<br>MTH 0304 | Discussion |
| 0233 | Mestiyage Gunatilleka<br>TuTh 9:30am - 10:45am<br>M 11:00am - 11:50am | Seats (Total: 30)<br>ARM 0126<br>PHY 2214 | Discussion |
| 0311 | Sana Jahedi<br>TuTh 2:00pm - 3:15pm<br>W 8:00am - 8:50am | Seats (Total: 28)<br>ARM 0126<br>PHY 2214 | Discussion |
| 0312 | Sana Jahedi<br>TuTh 2:00pm - 3:15pm<br>W 8:00am - 8:50am | Seats (Total: 28)<br>ARM 0126<br>MTH B0423 | Discussion |
| 0313 | Sana Jahedi<br>TuTh 2:00pm - 3:15pm<br>W 8:00am - 8:50am | Seats (Total: 28)<br>ARM 0126<br>MTH 0103 | Discussion |
| 0321 | Sana Jahedi<br>TuTh 2:00pm - 3:15pm<br>W 9:00am - 9:50am | Seats (Total: 28)<br>ARM 0126<br>PHY 2214 | Discussion |
| 0322 | Sana Jahedi<br>TuTh 2:00pm - 3:15pm<br>W 9:00am - 9:50am | Seats (Total: 29)<br>ARM 0126<br>MTH B0423 | Discussion |

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|---|---|---|---|
| 0323 | Sana Jahedi<br>TuTh 2:00pm - 3:15pm<br>W 9:00am - 9:50am | Seats (Total: 28)<br>ARM 0126<br>MTH 0103 | Discussion |
| 0331 | Sana Jahedi<br>TuTh 2:00pm - 3:15pm<br>W 10:00am - 10:50am | Seats (Total: 28)<br>ARM 0126<br>PHY 2214 | Discussion |
| 0332 | Sana Jahedi<br>TuTh 2:00pm - 3:15pm<br>W 10:00am - 10:50am | Seats (Total: 28)<br>ARM 0126<br>MTH B0423 | Discussion |
| 0333 | Sana Jahedi<br>TuTh 2:00pm - 3:15pm<br>W 10:00am - 10:50am | Seats (Total: 29)<br>ARM 0126<br>MTH 0103 | Discussion |
| 0511 | Jenna Zomback<br>TuTh 9:30am - 10:45am<br>M 11:00am - 11:50am | Seats (Total: 28)<br>LEF 2205<br>PHY 1219 | Discussion |
| 0512 | Jenna Zomback<br>TuTh 9:30am - 10:45am<br>M 11:00am - 11:50am | Seats (Total: 28)<br>LEF 2205<br>MTH 0303 | Discussion |
| 0521 | Jenna Zomback<br>TuTh 9:30am - 10:45am<br>M 12:00pm - 12:50pm | Seats (Total: 28)<br>LEF 2205<br>PHY 1219 | Discussion |
| 0522 | Jenna Zomback<br>TuTh 9:30am - 10:45am<br>M 12:00pm - 12:50pm | Seats (Total: 28)<br>LEF 2205<br>MTH 0303 | Discussion |
| 0531 | Jenna Zomback<br>TuTh 9:30am - 10:45am<br>M 1:00pm - 1:50pm | Seats (Total: 28)<br>LEF 2205<br>PHY 1219 | Discussion |
| 0532 | Jenna Zomback<br>TuTh 9:30am - 10:45am<br>M 1:00pm - 1:50pm | Seats (Total: 28)<br>LEF 2205<br>MTH 0306 | Discussion |

**STAT401** **Applied Probability and Statistics II**

*Prerequisite: 1 course with a minimum grade of C- from (STAT400, STAT410). Additional information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.*

*Point estimation - unbiased and consistent estimators. Interval estimation. Minimum variance and maximum likelihood estimators. Testing of hypotheses. Regression, correlation and analysis of variance. Sampling distributions. Elements of non-parametric methods.*

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|---|---|---|---|
| 0111 | Jonathan Fernandes<br>MWF 2:00pm - 2:50pm<br>Th 8:00am - 8:50am | Seats (Total: 27)<br>ATL 1113<br>PHY 2208 | Discussion |
| 0112 | Jonathan Fernandes<br>MWF 2:00pm - 2:50pm<br>Th 9:00am - 9:50am | Seats (Total: 25)<br>ATL 1113<br>PHY 2208 | Discussion |
| 0113 | Jonathan Fernandes<br>MWF 2:00pm - 2:50pm<br>Th 10:00am - 10:50am | Seats (Total: 27)<br>ATL 1113<br>PHY 2208 | Discussion |
| 0201 | Archana Khurana<br>MWF 12:00pm - 12:50pm | Seats (Total: 35)<br>MTH 0304 | |
| 0301 | Francesco Gaffi<br>TuTh 11:00am - 12:15pm | Seats (Total: 32)<br>EGR 3106 | |
| 0401 | Anurag Dey<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>MTH B0421 | |
| 0501 | Francesco Gaffi<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>MTH 0403 | |

**STAT410 Introduction to Probability Theory**

*Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241). Cross-listed with: SURV410. Credit only granted for: STAT410 or SURV410.*

*Probability and its properties. Random variables and distribution functions in one and several dimensions. Moments. Characteristic functions. Limit theorems.*

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|---|---|---|---|
| 0101 | Hatice Sahinoglu<br>MWF 10:00am - 10:50am | Seats (Total: 31)<br>CHE 2108 | |

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|---|---|---|
| 0201 | Jonathan Fernandes<br>MWF 11:00am - 11:50am | Seats (Total: 35)<br>PHY 2106 |
| 0301 | Anna Szczekutowicz<br>MWF 1:00pm - 1:50pm | Seats (Total: 35)<br>PHY 2106 |
| 0401 | Sandra Cerrai<br>TuTh 11:00am - 12:15pm | Seats (Total: 35)<br>EGR 1104 |
| 0501 | Christian Zickert<br>TuTh 12:30pm - 1:45pm | Seats (Total: 32)<br>HBK 1112 |
| 0601 | Sana Jahedi<br>TuTh 3:30pm - 4:45pm | Seats (Total: 35)<br>PHY 2211 |
| 0701 | Terence Long<br>MWF 11:00am - 11:50am | Seats (Total: 32)<br>MTH 0307 |

**STAT420** **Theory and Methods of Statistics**

*Prerequisite: 1 course with a minimum grade of C- from (SURV410, STAT410). Cross-listed with: SURV420. Credit only granted for: STAT420 or SURV420.*

*Point estimation, sufficiency, completeness, Cramer-Rao inequality, maximum likelihood. Confidence intervals for parameters of normal distribution. Hypothesis testing, most powerful tests, likelihood ratio tests. Chi-square tests, analysis of variance, regression, correlation. Nonparametric methods.*

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|---|---|---|
| 0101 | Mestiyage Gunatilleka<br>TuTh 2:00pm - 3:15pm | Seats (Total: 33)<br>CHM 2201 |
| 0201 | Jian Lun Xu<br>TuTh 5:00pm - 6:15pm | Seats (Total: 30)<br>PHY 2106 |

**STAT426** **Introduction to Data Science and Machine Learning**

*Prerequisite: Minimum grade of C- in MATH241 or MATH340; and minimum grade of C- in MATH240, MATH461 or MATH341; and minimum grade of C- in STAT400 or STAT410; students who have taken courses with content comparable to STAT400/410 may request permission of the instructor. Credit only granted for: STAT426 or CMSC320.*

*An introductory course to the recent developments in the fields of data science and machine learning. Emphasis will be given to mathematical and statistical understanding of commonly used methods and processes.*

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|---|---|---|
| 0101 | Vincent Lyzinski<br>TuTh 12:30pm - 1:45pm | Seats (Total: 25)<br>MTH 0306 |

**STAT430** **Introduction to Statistical Computing with SAS**

*Prerequisite: 1 course with a minimum grade of C- from (STAT400, STAT410); and must have completed or be concurrently enrolled in STAT401 or STAT420; students who do not meet the STAT401 or STAT420 requirement but who have taken a statistics course may contact the math department to confirm eligibility.*

*Descriptive and inferential statistics. SAS software: numerical and graphical data summaries; merging, sorting and splitting data sets. Least squares, regression, graphics and informal diagnostics, interpreting results. Categorical data, lifetime data, time series. Applications to engineering, life science, business and social science.*

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|---|---|---|
| 0201 | Tong Qi<br>MWF 12:00pm - 12:50pm | Seats (Total: 32)<br>MTH 0105 |
| 0301 | Timothy Pilachowski<br>MWF 11:00am - 11:50am | Seats (Total: 30)<br>PHY 0405 |
| 0401 | Natalia Tchetcherina<br>MWF 1:00pm - 1:50pm | Seats (Total: 30)<br>MTH 0103 |
| 0501 | Christine Nickel<br>TuTh 5:00pm - 6:15pm | Seats (Total: 38)<br>PHY 2214 |

**STAT440** **Sampling Theory**

*Prerequisite: 1 course with a minimum grade of C- from (STAT401, STAT420). Credit only granted for: STAT440 or SURV440.*

*Simple random sampling. Sampling for proportions. Estimation of sample size. Sampling with varying probabilities. Sampling: stratified, systematic, cluster, double, sequential, incomplete.*

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|---|---|---|
| 0101 | Natalia Tchetcherina<br>MWF 10:00am - 10:50am | Seats (Total: 30)<br>EGR 2116 |
| 0201 | Natalia Tchetcherina<br>MWF 11:00am - 11:50am<br>*2408: B2B STAT440-0101 and STAT440-0201. AMB* | Seats (Total: 30)<br>EGR 2116 |

**STAT464** **Introduction to Biostatistics**

*Prerequisite: Must have completed one semester of calculus. Restriction: Junior standing or higher. Credit only granted for: BIOE372 or STAT464. Additional information: Not acceptable toward degrees in MATH/STAT.*

*Probabilistic models. Sampling. Some applications of probability in genetics. Experimental designs. Estimation of effects of treatments. Comparative experiments. Fisher-Irwin test. Wilcoxon tests for paired comparisons.*

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|---|---|---|
| 0101 | Raluca Rosca | Seats (Total: 28) |
| | MWF 1:00pm - 1:50pm | MTH 0105 |

**STAT470** **Actuarial Mathematics**

*Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241). Recommended: STAT400.*

*Major mathematical ideas involved in calculation of life insurance premiums, including compound interest and present valuation of future income streams; probability distribution and expected values derived from life tables; the interpolation of probability distributions from values estimated at one-year multiples; the 'Law of Large Numbers' describing the regular probabilistic behavior of large populations of independent individuals; and the detailed calculation of expected present values arising in insurance problems.*

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|---|---|---|
| 0201 | Matthew Griffin | Seats (Total: 42) |
| | MWF 2:00pm - 2:50pm | PHY 2106 |

**STAT498A** **Selected Topics in Statistics**

(Perm req)

*Topics of special interest to advanced undergraduate students will be offered occasionally under the general guidance of the MATH/STAT major committee. Students register for reading in statistics under this number.*

**Contact department for information to register for this course.**

**STAT600** **Probability Theory I**

*Prerequisite: STAT410.*

*Probability space; distribution functions and densities; Poissson limit theoreom; de Moivre-Laplace theorem; measure-theoretic definition of expectation; classification of measures on R; convergence of random variables; Radon-Nikodym theorem;LP spaces; conditional probabilities; independence of events, sigma-algebras and random variables; Bayes' theo rem; pi-systems and Dynkin systems; discrete Markov chains; random walks; gambler's ruin problem; Markov chains on a general phase space; Borel-cantelli lemmas; Kolmogorov inequality; three series theorem; laws of large numbers.*

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|---|---|---|
| 0101 | Yu Gu | Seats (Total: 25) |
| | TuTh 2:00pm - 3:15pm | EGR 3106 |

**STAT689** **Research Interactions in Statistics**

(Perm req)

*The students participate in a vertically integrated (undergraduate, graduate and/or postdoctoral, faculty) research group. Format varies, but includes regular meetings, readings and presentations of material. See graduate program's online syllabus or contact the graduate program director for more information.*

**Contact department for information to register for this course.**

**STAT700** **Mathematical Statistics I**

*Prerequisite: STAT410; or students who have taken courses with comparable content may contact the department.*

*Sampling distributions including noncentral chi-squared, t, F. Exponential families, completeness. Sufficiency, factorization, likelihood ratio. Decision theory, Bayesian methods, minimax principle. Point estimation. Lehmann-Scheffe and Cramer-Rao theorems. Set estimation.*

Offered fall only.

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|---|---|---|
| 0101 | Eric Slud<br>MWF 9:00am - 9:50am | Seats (Total: 25)<br>PHY 2124 |

**STAT705** **Computational Statistics**

*Prerequisite: STAT700 or STAT420. Recommended: Have some programming experience (any language). Credit only granted for: STAT705 or STAT798C. Formerly: STAT798C.*

*Modern methods of computational statistics and their application to both practical problems and research. S-Plus and SAS programming with emphasis on S-Plus. S-Plus objects and functions, and SAS procedures. Topics include data management and graphics, Monte Carlo and simulation, bootstrapping, numerical optimization in statistics, linear and generalized linear models, nonparametric regression, time series analysis.*

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|---|---|---|
| 0101 | Vincent Lyzinski<br>TuTh 11:00am - 12:15pm | Seats (Total: 25)<br>EGR 1102 |

**STAT740** **Linear Statistical Models I**

*Prerequisite: STAT700 or STAT420.*

*Least squares, general linear models, estimability and Gauss-Markov theorem. Simple and multiple linear regression, analysis of residuals and diagnostics, polynomial models, variable selection. Qualitative predictors, one and two way analysis of variance, multiple comparisons, analysis of covariance. Nonlinear least squares. High-level statistical computer software will be used for data analysis throughout the course.*

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|---|---|---|
| 0101 | Yun Yang<br>MWF 11:00am - 11:50am | Seats (Total: 25)<br>MTH 0306 |

**STAT799** **Master's Thesis Research**

**Contact department for information to register for this course.**

**STAT808A** **Selected Topics in Probability**

*Advanced topics of current interest.*

**Contact department for information to register for this course.**

**STAT818A** **Selected Topics in Statistics**

*Advanced topics of current interest.*

**Contact department for information to register for this course.**

**STAT818J** **Selected Topics in Statistics; Large Deviations**

*Advanced topics of current interest.*

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|---|---|---|
| 0101 | Dmitry Dolgopyat | Seats (Total: 20) |
| | TuTh 9:30am - 10:45am | CHE 2140 |

**STAT818N** **Selected Topics in Statistics; Statistical Foundations of Deep Neural Network Models**

*Advanced topics of current interest.*

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|---|---|---|
| 0101 | Lizhen Lin | Seats (Total: 25) |
| | TuTh 11:00am - 12:15pm | PLS 1146 |

**STAT898** **Pre-Candidacy Research**

**Contact department for information to register for this course.**

**STAT899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# SURV Survey and Data Science Fall 2024

**SURV400** **Fundamentals of Survey and Data Science**

*Prerequisite: STAT100; or permission of BSOS-Joint Program in Survey Methodology department. Restriction: Course open to SURV certificate students, SURV Advanced Special Students, and SURV undergraduate minors. Graduate students from other departments may enroll with permission from the department. Credit only granted for: SURV699M or SURV400. Formerly: SURV699M.*

*The course introduces the student to a set of principles of survey and data science that are the basis of standard practices in these fields. The course exposes the student to key terminology and concepts of collecting and analyzing data from surveys and other data sources to gain insights and to test hypotheses about the nature of human and social behavior and interaction. It will also present a framework that will allow the student to evaluate the influence of different error sources on the quality of data.*

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|---|---|---|
| 0101 | Jacob Coutts, Sarah Glidden<br>MW 3:30pm - 4:45pm | Seats (Total: 40)<br>PHY 0405 |
| PLS1 | Ruben Bach<br>**Meets September 4, 2024 - December 4, 2024**<br>W 11:00am - 12:00pm<br>Class time/details on ELMs<br>*Golden ID students are not eligible for this section. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.* | Seats (Total: 20)<br><br>ONLINE<br>ONLINE |

**SURV410** **Introduction to Probability Theory**

*Prerequisite: 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241). Cross-listed with: STAT410. Credit only granted for: STAT410 or SURV410.*

*Probability and its properties. Random variables and distribution functions in one and several dimensions. Moments. Characteristic functions. Limit theorems.*

| | | |
|---|---|---|
| 0101 | Hatice Sahinoglu<br>MWF 10:00am - 10:50am | Seats (Total: 31)<br>CHE 2108 |
| 0201 | Jonathan Fernandes<br>MWF 11:00am - 11:50am | Seats (Total: 35)<br>PHY 2106 |
| 0301 | Anna Szczekutowicz<br>MWF 1:00pm - 1:50pm | Seats (Total: 35)<br>PHY 2106 |
| 0401 | Sandra Cerrai<br>TuTh 11:00am - 12:15pm | Seats (Total: 35)<br>EGR 1104 |
| 0501 | Christian Zickert<br>TuTh 12:30pm - 1:45pm | Seats (Total: 32)<br>HBK 1112 |
| 0601 | Sana Jahedi<br>TuTh 3:30pm - 4:45pm | Seats (Total: 35)<br>PHY 2211 |

**SURV612** **Ethical Considerations for Data Science Research**

*Credit only granted for: SURV699A or SURV612. Formerly: SURV699A.*

*The goal of research ethics is to protect human subjects from harm when they participate in a study. In the digital age, however, what constitutes "participation" has become blurry, especially with the rise of social media platforms and other online apps and services. Furthermore, new applications of big data raise important questions about how to protect consumers from harms, and what kinds of notice and consent should be obtained. This course provides an introduction and overview of research ethics in the 21st century and evaluates the many challenges to conducting ethical research.*

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|---|---|---|
| PLS1 | Jessica Vitak<br>**Meets September 4, 2024 - September 25, 2024**<br>W 1:00pm - 2:00pm<br>Class time/details on ELMs<br>*Golden ID students are not eligible for this section. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.* | Seats (Total: 15)<br><br><br>ONLINE<br>ONLINE |

**SURV615** **Statistical Modeling and Machine Learning I**

*Prerequisite: Must have basic R Programming skills; and must have completed a two course sequence in probability and statistics; or students who have comparable content may contact the department for permission. Restriction: Must be in Survey Methodology (Master's) program; or permission of instructor.*

*This is the first course in a two-term sequence in applied statistical methods and machine learning that are the basis in handling complex datasets. The topics covered include: overview on the quantitative research, linear regression, analysis of variance, inference, prediction, model diagnostics and selection and resampling methods. The emphasis will be to understand and apply the methods.*

Runs concurrently with the University of Michigan course.

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|---|---|---|
| 0101 | John Kubale<br>**Meets August 26, 2024 - December 6, 2024**<br>Tu 9:30am - 12:00pm | Seats (Total: 20)<br><br><br>LEF 1208 |
| PCA1 | John Kubale<br>Tu 9:30am - 12:00pm<br>*Must be in the Applied Political Analysis (MS) program. Golden ID students are not eligible for this section.* | Seats (Total: 10)<br><br>LEF 1208 |

**SURV617** **Applications of Statistical Modeling**

(Perm req)

*Prerequisite: SURV615 and SURV616; or permission of instructor. Credit only granted for: SURV617, SURV746, or SURV699R. Formerly: SURV699R and SURV746.*

*Designed for students on both the social science and statistical tracks for the two programs in survey methodology, will provide students with exposure to applications of more advanced statistical modeling tools for both substantive and methodological investigations that are not fully covered in other MPSM or JPSM courses. Modeling techniques to be covered include multilevel modeling (with an application to methodological studies of interviewer effects), structural equation modeling (with an application of latent class models to methodological studies of measurement error), classification trees (with an application to prediction of response propensity), and alternative models for longitudinal data (with an application to panel survey data from the Health and Retirement Study). Discussions and examples of each modeling technique will be supplemented with methods for appropriately handling complex sample designs when fitting the models. The class will focus on practical applications and software rather than extensive theoretical discussions.*

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|---|---|---|
| 0101 | Yajuan Si<br>**Meets August 26, 2024 - December 6, 2024**<br>Tu 1:00pm - 3:30pm | Seats (Total: 20)<br><br>LEF 2208 |

**SURV621** **Fundamentals of Data Collection I**

*Restriction: Permission of BSOS-Joint Program in Survey Methodology department.*

*First semester of a two-semester sequence that provides a broad overview of the processes that generate data for use in social science research. Students will gain an understanding of different types of data and how they are created, as well as their relative strengths and weaknesses. A key distinction is drawn between data that are designed, primarily survey data, and those that are found, such as administrative records, remnants of online transactions, and social media content. The course combines lectures, supplemented with assigned readings, and practical exercises. In the first semester, the focus will be on the error that is inherent in data, specifically errors of representation and errors of measurement, whether the data are designed or found. The psychological origins of survey responses are examined as a way to understand the measurement error that is inherent in answers. The effects of the mode of data collection (e.g., mobile web versus telephone interview) on survey responses also are examined.*

It runs concurrently with the University of Michigan course.

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|---|---|---|
| 0101 | Zeynep Suzer Gurtekin, Christopher Antoun<br>**Meets August 26, 2024 - December 6, 2024**<br>M 1:00pm - 4:00pm | Seats (Total: 25)<br><br>LEF 1208 |

**SURV626** **Sampling**

(Perm req)

*Prerequisite: Permission of BSOS-Joint Program in Survey Methodology department; and must have taken at least a graduate level statistics course or an undergraduate level advanced statistics course.*

*Practical aspects of sample design. The course will cover the main techniques used in sampling practice: simple random sampling, stratification, systematic selection, cluster sampling, multistage sampling, and probability proportional to size sampling. The course will also cover sampling frames, cost models, and sampling error (variance) estimation techniques.*

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|---|---|---|
| PLS1 | Raphael Nishimura | Seats (Total: 15) |
| | **Meets September 26, 2024 - November 14, 2024** | |
| | Th 12:00pm - 1:00pm | ONLINE |
| | Class time/details on ELMs | ONLINE |
| | *Students must have access to a standalone web camera and a headset to participate in the weekly online meetings. Golden ID students are not eligible for this section.* | |

**SURV627** **Experimental Design and Causal Inference**

(Perm req)

*Prerequisite: Basic knowledge of data analysis. Familiarity with the R programming language and the RStudio IDE. Recommended: Experience in the use of SAS or STATA statistical analysis software. Restriction: Permission of BSOS-Joint Program in Survey Methodology department.*

*Many of the questions we are interested in as researchers and practitioners are of a causal nature. We act upon the world; how can we tell if our actions have impact? How can we decide if an intervention would get us closer to our goals? In this course, we introduce the basic concepts from causal inference and econometrics, and show what makes a valid causal claim, and what would undo it. We then demonstrate how experiments can be used to evaluate causal hypotheses, and what options are available to conduct experiments in practice. Having discussed experimental data collection, we turn to the analysis of experiments, show how this, again, is linked to the logic of causal inference, and how to work with experimental data. We discuss how to design studies so that statistical inferences are informative and reliable. Next, we cover situations in which experiments might not be possible, and show how these can be addressed through study design ex ante and ex post through analysis.*

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|---|---|---|
| PLS1 | Stephanie Coffey | Seats (Total: 15) |
| | **Meets August 27, 2024 - October 15, 2024** | |
| | Tu 8:00am - 9:00am | ONLINE |
| | Class time/details on ELMs | ONLINE |
| | *Golden ID students are not eligible for this section. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.* | |

**SURV632** **Cognition, Communication and Survey Measurement**

*Major sources of survey error-such as reporting errors and nonresponse bias-from the perspective of social and cognitive psychology and related disciplines. Topics: psychology of memory and its bearing on classical survey issues (e.g., underreporting and telescoping); models of language use and their implications for the interpretation and misinterpretation of survey questions; and studies of attitudes, attitude change, and their possible application to increasing response rates and improving the measurement of opinions. Theories and findings from the social and behavioral sciences will be explored.*

Restricted to SURV majors only.

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|---|---|---|
| 0101 | Aaron Maitland | Seats (Total: 15) |
| | **Meets August 26, 2024 - December 6, 2024** | |
| | W 9:00am - 11:45am | LEF 1208 |

**SURV665** **Introduction to Real World Data Management**

(Perm req)

*Restriction: Permission of BSOS-Joint Program in Survey Methodology department.*

*Data is omnipresent in the contemporary world coming in different shapes and sized: from survey data to found data. In order to make use of such data through analysis it is necessary first to import and clean it. This is often one of the most time consuming and difficult parts of data analysis. In this course you will learn both the conceptual steps needed in preparing data for analysis as well as the practical skills to do this. The course will cover all the essential skills needed to prepare data be it survey data, administrative data or found data.*

Basic knowledge of R and prior experience working with data is required for success in this course.

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| PLS1 | Alexandru Cernat | Seats (Total: 15) |
| | **Meets September 30, 2024 - November 25, 2024** | |
| | M 3:00pm - 4:00pm | ONLINE |
| | Class time/details on ELMs | ONLINE |
| | *Golden ID students are not eligible for this section. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings. The first meeting will begin at 1:00 pm EST/7:00 PM CEST.* | |

**SURV667** **Introduction to Record Linkage with Big Data Applications**

*Prerequisite: Basic statistical concepts; and intermediate knowledge of R. Recommended: Familiarity with regular expressions, the R packages ggplot2 and tidyverse. Restriction: Permission of BSOS-Joint Program in Survey Methodology department.*

*Methods to combine data on given entities (people, households, firms etc.) that are stored in different data sources. By showing the strengths of these methods and by showing how each of them are performed in practice using R, the course will demonstrate the various benefits of record linkage. Participants will also learn about potential challenges that record linkage projects may face.*

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|---|---|---|
| PLS1 | Fiona Draxler | Seats (Total: 15) |
| | **Meets September 11, 2024 - October 30, 2024** | |
| | W 11:00am - 12:00pm | ONLINE |
| | *Golden ID students are not eligible for this section. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.* | |

**SURV673** **Introduction to Python and SQL**

(Perm req)

*Recommended: Background knowledge in programming in Python and SQL structures.*

*Basics of Python and SQL for data analysis.Students will explore real publicly-available datasets, using the data analysis toolsin Python to create summaries and generate visualizations. Students will learn thebasics of database management and organization, as well as learn how to code inSQL and work with PostgreSQL databases. By the end of the class, students shouldunderstand how to read in data from CSV files or from the internet and becomfortable using either SQL or Python to aggregate, summarize, describe, andvisualize these datasets.*

**Contact department for information to register for this course.**

**SURV699** **Special Topics in Survey Methodology; Reading in Survey Methodology**

(Perm req)

*Credit according to time scheduled and organization of the course. Organized as a lecture series on specialized advanced topics in survey methodology.*

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|---|---|---|
| 0101 | Partha Lahiri | Seats (Total: 10) |
| | Contact instructor or department for details. | |
| 0301 | Stanley Presser | Seats (Total: 10) |
| | Contact instructor or department for details. | |
| 0401 | Frauke Kreuter | Seats (Total: 2) |
| | Contact instructor or department for details. | |

**SURV720** **Total Survey Error and Data Quality I**

(Perm req)

*Prerequisite: SURV625. Restriction: Permission of instructor. Credit only granted for: (SURV720 and SURV721) or SURV723. Formerly: SURV723.*

*Total error structure of sample survey data, reviewing current research findings on the magnitudes of different error sources, design features that affect their magnitudes, and interrelationships among the errors. Coverage, nonresponse, sampling, measurement, and postsurvey processing errors. For each error source reviewed, social science theories about its causes and statistical models estimating the error source are described. Empirical studies from the survey methodological literature are reviewed to illustrate the relative magnitudes of error in different designs. Emphasis on aspects of the survey design necessary to estimate different error sources. Relationships to show how attempts to control one error source may increase another source. Attempts to model total survey error will be presented.*

It runs concurrently with the University of Michigan course.

| | | |
|---|---|---|
| 0101 | Sharan Sharma | Seats (Total: 20) |
| | **Meets August 26, 2024 - December 6, 2024** | |
| | M 10:20am - 12:15pm | LEF 1208 |

**SURV726** **Multiple Imputation**

*Prerequisite: Be comfortable with generalized linear models and basic probability theory through coursework or work experience; and familiarity with the statistical software R; and must have completed Surv 725 Item Nonresponse and Imputation or be familiar with the content through relevant work experience. Restriction: Permission of BSOS-Joint Program in Survey Methodology department.*

*This course will provide a detailed introduction to multiple imputation, a convenient strategy for dealing with (item) nonresponse in surveys. We will motivate the concept and illustrate why multiple imputation should generally be preferred over single imputation methods. The main focus of the course will be on strategies to generate (multiple) imputations and how to deal with common problems when applying the methods for large scale surveys. We will also discuss various options for assessing the quality of the imputations. All concepts will be demonstrated using software illustrations in R.*

| | | |
|---|---|---|
| PLS1 | Joerg Drechsler | Seats (Total: 15) |
| | **Meets November 12, 2024 - December 3, 2024** | |
| | Tu 11:00am - 12:00pm | ONLINE |
| | Class time/details on ELMs | ONLINE |
| | *Golden ID students are not eligible for this section. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.* | |

**SURV727** **Fundamentals of Computing and Data Display**

*Restriction: Must be in a major within the BSOS-Joint Program in Survey Methodology department; or permission of BSOS-Joint Program in Survey Methodology department. Additional information: Students without any R knowledge are encouraged to work through one or more R web tutorials prior or during the first weeks of the course.*

*The first part of this course provides an introduction to web scraping and APIs for gathering data from the web and then discusses how to store and manage (big) data from diverse sources efficiently. The second part of the course demonstrates techniques for exploring and finding patterns in (non-standard) data, with a focus on data visualization. The course focuses on R as the primary computing environment, with excursus into SQL and Big Data processing tools.*

Runs concurrently with the University of Michigan course.

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|---|---|---|
| 0101 | Brian Kim<br>W 1:30pm - 4:00pm | Seats (Total: 20)<br>LEF 1208 |
| PCA1 | Christoph Kern, Brian Kim<br>W 1:30pm - 4:00pm<br>*Must be in the Applied Political Analysis (MS) program. Golden ID students are not eligible for this section.* | Seats (Total: 15)<br>LEF 1208 |

**SURV740** **Fundamentals of Inference**

*Prerequisite: SURV410 and SURV420; or (SURV615 and SURV616); or permission of Instructor required. Restriction: Must be in a major within the BSOS-Joint Program in Survey Methodology department; or permission of BSOS-Joint Program in Survey Methodology department.*

*Focuses on the fundamentals of statistical inference in the finite population setting. Overview and review fundamental ideas of making inferences about populations. Basic principles of probability sampling; focus on differences between making predictions and making inferences; explore the differences between randomized study designs and observational studies; consider model-based vs. design-based analytic approaches; review techniques designed to improve efficiency using auxiliary information; and consider non-probability sampling and related inferential techniques.*

Runs concurrently with the University of Michigan course.

| | | |
|---|---|---|
| 0101 | Brady West, Yan Li<br>**Meets August 26, 2024 - December 6, 2024**<br>F 1:00pm - 4:00pm | Seats (Total: 20)<br><br>LEF 1208 |
| PCA1 | Yan Li, Brady West<br>F 1:00pm - 4:00pm<br>*Must be in the Applied Political Analysis (MS) program. Golden ID students are not eligible for this section.* | Seats (Total: 15)<br>LEF 1208 |

**SURV753** **Machine Learning II**

(Perm req)

*Prerequisite: SURV751; or comparable knowledge or experience. Recommended: Familiarity with the statistical programming language R.*

*Social scientists and survey researchers are confronted with an increasing number of new data sources such as apps and sensors that often result in (para)data structures that are difficult to handle with traditional modeling methods. At the same time, advances in the field of machine learning (ML) have created an array of flexible methods and tools that can be used to tackle a variety of modeling problems. Against this background, this course discusses advanced ML concepts such as cross validation, class imbalance, Boosting and Stacking as well as key approaches for facilitating model tuning and performing feature selection. In this course we also introduce additional machine learning methods including Support Vector Machines, Extra-Trees and LASSO among others. The course aims to illustrate these concepts, methods and approaches from a social science perspective. Furthermore, the course covers techniques for extracting patterns from unstructured data as well as interpreting and presenting results from machine learning algorithms. Code examples will be provided using the statistical programming language R.*

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|---|---|---|
| PLS1 | Trent Buskirk, Christoph Kern | Seats (Total: 15) |
| | **Meets September 20, 2024 - November 8, 2024** | |
| | F 11:00am - 12:00pm | ONLINE |
| | Class time/details on ELMs | ONLINE |
| | *Golden ID students are not eligible for this section. Students must have access to a standalone web camera and a headset to participate in the weekly online meetings.* | |

**SURV829** **Doctoral Research Seminar in Survey Methodology**

*An advanced research seminar for students preparing to do research or take doctoral comprehensive examinations.*

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|---|---|---|
| 0101 | Stanley Presser, Sunghee Lee | Seats (Total: 10) |
| | **Meets August 26, 2024 - December 6, 2024** | |
| | W 2:00pm - 4:30pm | LEF 1218 |

**SURV898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**SURV899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# TDPS Theatre, Dance and Performance Studies Fall 2024

**TDPS201** **Introduction to Technical Production**

(Perm req)

*Restriction: Must be in a major within the ARHU-Dance department; or must be in a major within the ARHU-Theatre department. Credit only granted for: DANC210 and THET114 or TDPS201. Formerly: DANC210 and THET114.*

*Students are provided with an overview of topics related to the technical production of theatre and dance including: scenic, prop and costume construction, lighting, sound and video execution and management structures.*

Students must pay a $25.00 lab fee.

| | | |
|---|---|---|
| 5501 | Michael Driggers | Seats (Total: 25) |
| | MWF 4:00pm - 4:50pm | PAC 1809 |

**TDPS258C** **Special Topics in Introductory Performing Arts; Cultural Institutions in the United States**

*Designed for performing arts students. Offers instruction at the introductory level in various aspects of performance such as Voice for the Performing Arts, Movement for the Performing Arts, Acting for the Performing Arts, Partner Dance and a myriad of specific aspects within these genres.*

Cross-listed with ARHU240. Credit granted for TDPS258C or ARHU240.

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| 0101 | Maura Keefe | Seats (Total: 20) |
| | TuTh 9:30am - 10:45am | PAC 1809 |

**TDPS358T** **Special Topics in Intermediate Performing Arts; Technology for Performing Arts: Theory and Practice**

*Designed for performing arts students. Offers instruction at the intermediate level in various aspects of performance such as Voice for the Performing Arts, Movement for the Performing Arts, Acting for the Performing Arts, Partner Dance and a myriad of specific aspects within these genres.*

Students must pay a $25 lab fee. An introduction to experimental technology systems, and how to adapt them for use in live performance. Students will be introduced to a variety of new media tools.

| | | |
|---|---|---|
| 5501 | Andrew Cissna | Seats (Total: 12) |
| | TuTh 11:00am - 12:15pm | PAC 2733 |

**TDPS458E** **Special Topics in Advanced Performing Arts; Arts Entrepreneurship: Theory and Practice**

*Designed for performing arts students. Offers instruction at an advanced level in various aspects of performance such as Voice for the Performing Arts, Movement for the Performing Arts, Acting for the Performing Arts, Partner Dance and a myriad of specific aspects within these genres.*

Credit only granted for TDPS458U or THET669U. Based on social and arts entrepreneurship knowledge as well as contemporary professional practice, this class establishes arts entrepreneurship as a unique discipline with the goal of connecting creative initiatives (products, artforms, and programs) to audiences, resources, and communities. With a focus on the artist entrepreneur, this course introduces students to the ways in which creative initiatives both create value andoffer solutions to social, political, environmental, and cultural issues. Students will develop artist impact statements and identify different contexts and ways to apply their talents and creative initiatives in society.

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|---|---|---|
| 0101 | Kate Keeney | Seats (Total: 15) |
| | TuTh 11:00am - 12:15pm | PAC 1809 |

**TDPS458F** **Special Topics in Advanced Performing Arts; Aesthetics of Collaboration in Performance: Theory & Practice**

*Designed for performing arts students. Offers instruction at an advanced level in various aspects of performance such as Voice for the Performing Arts, Movement for the Performing Arts, Acting for the Performing Arts, Partner Dance and a myriad of specific aspects within these genres.*

This class offers practical methods for the creation and analysis of collaborative performance projects. Taking for granted that all performance works engage collaboration, this class is organized around themes of media, materiality, site-specificity, and working within and against systems. These themes are the organizing principles for student projects, as well as exemplary works of theory and performance. Finally, this class, being about collaboration, looks at strategies for working together, and carries with it an ethic of kindness, constructive critique, and mutual support.

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| 0101 | Lins Derry | Seats (Total: 15) |
| | MW 2:30pm - 3:45pm | PAC 1809 |

**TDPS469** **Advanced Practicum in Stage Management**

(Perm req)

*A graded course in stage management for theatre and/or dance productions. A hands-on laboratory experience.*

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|---|---|---|
| 0101 | Jenn Schwartz | Seats (Total: 8) |
| | Contact instructor or department for details. | |

**TDPS479** **Production Practicum**

(Perm req)

*A graded course in a specified practical aspect of mounting a theatre or dance production. It is a hands-on, purely laboratory experience.*

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|---|---|---|
| 1001 | Andrew Cissna | Seats (Total: 25) |
| | Contact instructor or department for details. | |

| | | |
|---|---|---|
| 1002 | Andrew Cissna<br>Contact instructor or department for details. | Seats (Total: 15) |
| 1003 | Andrew Cissna<br>Contact instructor or department for details. | Seats (Total: 15) |
| 1004 | Andrew Cissna<br>Contact instructor or department for details. | Seats (Total: 15) |
| 1005 | Andrew Cissna<br>Contact instructor or department for details. | Seats (Total: 60) |
| 1006 | Andrew Cissna<br>Contact instructor or department for details. | Seats (Total: 15) |
| 1007 | Andrew Cissna<br>Contact instructor or department for details. | Seats (Total: 15) |
| 2001 | Andrew Cissna<br>Contact instructor or department for details. | Seats (Total: 15) |
| 2002 | Andrew Cissna<br>Contact instructor or department for details. | Seats (Total: 15) |
| 2003 | Andrew Cissna<br>Contact instructor or department for details. | Seats (Total: 15) |
| 2004 | Andrew Cissna<br>Contact instructor or department for details. | Seats (Total: 15) |
| 2005 | Andrew Cissna<br>Contact instructor or department for details. | Seats (Total: 15) |
| 2006 | Andrew Cissna<br>Contact instructor or department for details. | Seats (Total: 15) |

# THET Theatre Fall 2024

**THET110** **Introduction to the Theatre**

*In the age of pop music and blockbuster films, of memes and viral videos, we often forget that theatre was one of the original forms of popular entertainment. We will focus on theatre practitioners including actors, directors, designers and backstage personnel to understand how theatre is produced. We will also consider popular entertainment in Europe and America, with a particular focus on musical theatre and Broadway to explore how theatre communicates, resonates, and remains relevant to all audiences.*

| | | | |
|---|---|---|---|
| 0101 | Caitlin Woods<br>MWF 11:00am - 11:50am | Seats (Total: 25)<br>SQH 1111 | |
| 0201 | James Sivert<br>MWF 12:00pm - 12:50pm | Seats (Total: 25)<br>SQH 1101 | |
| 0401 | Alexander Miller<br>TuTh 11:00am - 12:15pm | Seats (Total: 50)<br>ONLINE | |
| 0501 | Lisa Nathans<br>TuTh 9:00am - 10:15am | Seats (Total: 50)<br>ONLINE | |
| 0601 | Alexander Miller<br>TuTh 12:30pm - 1:45pm | Seats (Total: 50)<br>ONLINE | |
| 0701 | Marissa Kennedy<br>MWF 2:00pm - 2:50pm | Seats (Total: 25)<br>KEY 0102 | |

**THET116** **Fundamentals of Theatrical Design**

(Perm req)

*Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.*

*Examines theatre as an environmental art that is realized through collaboration between set, costume, and lighting designers.*

Students must pay a $25.00 lab fee.

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|---|---|---|---|
| 5501 | Mariah Faulkner, Sofia Olivar, Doni Rotunno<br>TuTh 3:00pm - 4:50pm<br>Class time/details on ELMs | Seats (Total: 20)<br>PAC 2733<br>ONLINE | <br>Lab<br>Lab |

**THET120** **Introduction to Acting**

(Perm req)

*Restriction: Must not be in Theatre program.*

*Through scene study, exercises, and improvisation, an appreciation is developed for the working habits of actors, which will aid them in rehearsal as well as performance.*

Enrollment for students with less than 60 credits will be prioritized. For permission email Susan Miller at smille13@umd.edu

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|---|---|---|---|---|
| 5501 | Scot Reese | Seats (Total: 12) | | |
| | MW 10:00am - 11:50am | PAC 3730 | Lab | |
| | Class time/details on ELMs | ONLINE | Lab | |

**THET222** **Foundations of Acting and Performance**

(Perm req)

*Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.*

*Students will become familiar with the tools and process of acting through the discipline of acting exercises, analyzing character and performing. Students will research various theatre artists that have contributed to the acting process. Through monologue and scene work students will learn listening skills, communicative, collaborative and embodiment skills and will learn how to use the self in the imaginative process and research. And, most importantly, students will learn creative process through practice.*

Students must pay a $25.00 lab fee.

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|---|---|---|---|---|
| 5501 | Fatima Quander | Seats (Total: 14) | | |
| | MW 1:00pm - 2:50pm | PAC 3730 | Lab | |
| | Class time/details on ELMs | ONLINE | Lab | |

**THET223** **Text and Context in Western Theatre**

(Perm req)

*Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.*

*Introduction to the analysis and critique of the play script. Students will have the opportunity to read, analyze, and interpret western dramatic literature from a range of periods and styles. Texts are analyzed from a variety of theatrical analytical perspectives, with an eye towards choices theatre artists must make in the creation of a theatrical production.*

| | | |
|---|---|---|
| 0101 | Patrick Saunders | Seats (Total: 20) |
| | MW 10:30am - 11:45am | PAC 1809 |

**THET269B** **Special Topics in Study Abroad II; The Meaning of Style**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**THET269T** **Special Topics in Study Abroad II; 20th Century and Contemporary Spanish Theatre**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**THET274** **Introduction to Stage Management**

*Prerequisite: THET114 or TDPS201; and permission of ARHU-School of Theatre, Dance & Performance Studies department.*

*Familiarization with the techniques and skills required of a Stage Manager in a theatrical production, including organization, production meetings, rehearsals, tech and running a show. The outcome at the conclusion of the course is the ability to function as an Assistant Stage Manager in a supervised situation.*

| | | |
|---|---|---|
| 0101 | Jenn Schwartz<br>TuTh 11:00am - 12:15pm | Seats (Total: 10)<br>PAC 1815 |

**THET284** **Stage Costume Construction I**

(Perm req)

*Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department.*

*Study and practical experience in garment construction and related costume crafts as used in theatre costume design. Flat pattern development, corset construction, theatrical sewing techniques and organization of the costume construction process.*

Students must pay a $25 lab fee

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|---|---|---|
| 5501 | Megan Hromek, Steven Simon<br>MW 9:00am - 10:50am | Seats (Total: 12)<br>PAC 3749 |

**THET285** **The Art of Communication and Presentation**

*Credit only granted for: COMM107, COMM200, INAG110, JOUR130, or THET285.*

*An introduction to the fundamental practice and theory of public speaking and oral communication using theatrical techniques of both performance and the craft of storytelling.*

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|---|---|---|
| 0101 | Robert Smith<br>MW 3:30pm - 5:20pm | Seats (Total: 25)<br>PAC 3730 |
| 0103 | Eran Eads<br>MW 1:00pm - 2:50pm | Seats (Total: 25)<br>PAC 2740 |
| FC01 | Drew Barker<br>TuTh 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 25)<br>PLS 1113 |
| FC02 | Jennifer Ring<br>MW 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 25)<br>ASY 3211 |

| | | |
|---|---|---|
| FC04 | Drew Barker<br>TuTh 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 25)<br>PLS 1113 |
| FC06 | Jennifer Ring<br>MW 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 25)<br>SQH 1123 |

**THET286** **Experiential Learning I**

(Perm req)

*Prerequisite: THET222, THET223, and THET116. And THET114; or TDPS201. And permission of ARHU-School of Theatre, Dance & Performance Studies department.*

*Introductory internship in theatre. Constructed to help students in their sophomore year gain practical experience in a supportive work environment in the theatre. Student must research and propose internship to a Faculty Advisor and Internship Venue.*

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|---|---|---|
| 0101 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0210 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0301 | Instructor: TBA<br>Contact instructor or department for details.<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0401 | Instructor: TBA<br>Contact instructor or department for details.<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0501 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0601 | Instructor: TBA<br>Contact instructor or department for details.<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0901 | Instructor: TBA<br>Contact instructor or department for details.<br>Contact instructor or department for details. | Seats (Total: 5) |

| | | |
|---|---|---|
| 1301 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1501 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1601 | Instructor: TBA<br>Contact instructor or department for details.<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1701 | Instructor: TBA<br>Contact instructor or department for details.<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1801 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2001 | Instructor: TBA<br>Contact instructor or department for details.<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2003 | Instructor: TBA<br>Contact instructor or department for details.<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2005 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2007 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |

**THET287** **Subversive Cultures and Performance**

*Credit only granted for: THET289I or THET287. Formerly: THET289I.*

*Every society has rebels - those who refuse to conform to the mainstream's rigid rules, aesthetics, and beliefs. From unruly skateboarders, punk rockers, bohemian poets, and radical theater performers, to national revolutionary movements and brick-throwing anarchists - such groups form niches that are defined by their exclusion from society. We will look at how their beliefs and actions fit into a particular historical context, and how their actions drive social change.*

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|---|---|---|
| 0102 | Lins Derry<br>MW 1:00pm - 2:15pm | Seats (Total: 30)<br>ANS 0412 |

**THET293** **Black Theatre and Performance I**

*Thematic and historical survey of African-American drama from the late nineteenth century to the 1960s. Emphasis on sociopolitical context, thematic thrust, issues, styles, the aesthetic reflected in the work, impact on African-American and general theatre audiences.*

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|---|---|---|---|
| 0101 | Matre Grant | Seats (Total: 25) | |
| | TuTh 12:30pm - 1:45pm | JMZ 1122 | |

**THET310** **Voice for the Actor I**

(Perm req)

*Prerequisite: THET116, THET222, THET223, and TDPS201; and must Interview; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Restriction: Sophomore standing or higher.*

*Freeing the natural voice. In-depth experience of connection of actor's voice to thought, impulse and emotion. Tools for releasing tension, increasing resonance and range, and refining articulation will be explored.*

Students must pay a $25.00 lab fee.

| | | | |
|---|---|---|---|
| 5501 | Lisa Nathans | Seats (Total: 12) | |
| | TuTh 2:00pm - 3:50pm | PAC 3736 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**THET325** **Actor's Process I**

(Perm req)

*Prerequisite: Must have completed or be concurrently enrolled in THET310; or permission of Instructor. And must audition; and permission of ARHU-School of Theatre, Dance & Performance Studies department.*

*Focus on use of self in creating character. Tools employed include decision-making and use of imagery, personalization, objectives, adjectives, and verbs.*

Students must pay a $25.00 lab fee.

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|---|---|---|---|
| 5501 | Fatima Quander | Seats (Total: 14) | |
| | TuTh 10:00am - 11:50am | PAC 3732 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**THET328L** **Special Topics in Intermediate Theatre and Performance; Acting for Digital and Live Performance**

*Topics covered include: Intercultural Theatre, Performance Art, Puppetry, Solo Performance, or Theatrical Design.*

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|---|---|---|---|---|
| 5501 | Fatima Quander | Seats (Total: 12) | | |
| | MW 10:00am - 11:50am | PAC 3736 | Lab | |
| | Class time/details on ELMs | ONLINE | Lab | |

**THET328O** **Special Topics in Intermediate Theatre and Performance; Movement for the Actor**

*Topics covered include: Intercultural Theatre, Performance Art, Puppetry, Solo Performance, or Theatrical Design.*

Students must pay a $25 lab fee. Students in this course will develop and refine their movement skills specifically for stage performance. Through a study of Viewpoints, Mask Work, Animal Work, Clown, Mime, and Laban Techniques students develop methods of artistic expression using their whole body. Students will also discover new connections to dialogue through movement and improve the condition of their instrument (body).

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|---|---|---|---|---|
| 5501 | Robert Smith | Seats (Total: 12) | | |
| | MW 1:30pm - 3:20pm | PAC 3736 | Lab | |
| | Contact instructor or department for details. | | | |

**THET330** **Play Directing I**

(Perm req)

*Prerequisite: THET222, THET223, and THET116. And THET114; or TDPS201. And permission of ARHU-School of Theatre, Dance & Performance Studies department. Restriction: Junior standing or higher.*

*A lecture-laboratory course dealing with the techniques of coordinating, designing and guiding the production of a script through to performance. Study and practice in stage composition, movement, pacing, script and character analysis, and rehearsal routines. Emphasis on methods of communicating a script to an audience.*

| | | | | |
|---|---|---|---|---|
| 5501 | KenYatta Rogers | Seats (Total: 12) | | |
| | MW 10:00am - 11:50am | PAC 2740 | Lab | |
| | Class time/details on ELMs | ONLINE | Lab | |

**THET340** **Playwriting I**

(Perm req)

*Prerequisite: THET222, THET223, THET116, and TDPS201. Restriction: Permission of ARHU-School of Theatre, Dance & Performance Studies department. Credit only granted for: THET340 or THET399P. Formerly: THET399P.*

*Will introduce students to the art of playwriting through exploratory writing exercises, the reading of successful plays, the development of new short scripts, how to make theatrical choices, and how to use the six elements of storytelling.*

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|---|---|---|---|
| 5501 | Jennifer Newsham | Seats (Total: 12) | |
| | MW 12:00pm - 1:50pm | PAC 1815 | Lab |

**THET351** **Musical Theatre I**

(Perm req)

*Credit only granted for: THET351 or THET328M. Formerly: THET328M.*

*An introduction for students interested in developing their skills with musical theatre, specifically the work of the actor interpreting songs and text in musicals. With a primary focus on American Musical Theatre repertoire, students will prepare and present various solo, duet, and group numbers.*

Students must pay a $25 lab fee.

| | | | |
|---|---|---|---|
| 5501 | Lester Green, Mina Kawahara | Seats (Total: 12) | |
| | Tu 1:30pm - 4:20pm | PAC 2740 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**THET369L** **Special Topics in Study Abroad III; 20th Century and Contemporary Latin American Theatre**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**THET371** **Scenic Design I**

(Perm req)

*Prerequisite: THET222, THET223, and THET116; and (THET114; or TDPS201). Or permission of ARHU-School of Theatre, Dance & Performance Studies department.*

*A study of design theory and style. Methods and techniques of coordination of all elements of scenic design for theatre.*

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|---|---|---|---|
| 5501 | Amanda Henney, Sophia Tepermeister | Seats (Total: 10) | |
| | MW 3:00pm - 4:50pm | PAC 2733 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**THET380** **Sound Design**

(Perm req)

*Prerequisite: THET116. And THET114; or TDPS201; or permission of ARHU-School of Theatre, Dance & Performance Studies department. Restriction: Sophomore standing or higher.*

*Theatre Sound Design is a first course in designing sound for stage productions.*

Students must pa a $25 lab fee.

| | | | |
|---|---|---|---|
| 5501 | Samuel Crawford | Seats (Total: 10) | |
| | TuTh 10:00am - 11:50am | PAC 2727 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**THET385** **Media Design**

*Prerequisite: THET222, THET223, THET116, and TDPS201; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Credit only granted for: THET399D or THET385. Formerly: THET399D.*

*Focuses on learning the grammar and conceptual thinking behind multimedia design for live performance. Students will learn how our new multimedia tools can enhance the sense of liveness as well as explore the different ways in which technology can be implemented into preproduction thinking, rehearsal experimenting, and ultimately, effective use in performance.*

| | | | |
|---|---|---|---|
| 5501 | Timothy Kelly | Seats (Total: 10) | |
| | TuTh 3:00pm - 4:50pm | PAC 2727 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**THET386** **Experiential Learning**

(Perm req)

*Restriction: Junior standing or higher; and permission of ARHU-School of Theatre, Dance & Performance Studies department.*

| | | |
|---|---|---|
| 0101 | Instructor: TBA | Seats (Total: 5) |
| | Contact instructor or department for details. | |
| 0201 | Franklin Hildy | Seats (Total: 5) |
| | Contact instructor or department for details. | |
| 0301 | Instructor: TBA | Seats (Total: 5) |
| | Contact instructor or department for details. | |
| 0401 | Scot Reese | Seats (Total: 5) |
| | Contact instructor or department for details. | |
| 0501 | Instructor: TBA | Seats (Total: 5) |
| | Contact instructor or department for details. | |
| 0601 | Instructor: TBA | Seats (Total: 5) |
| | Contact instructor or department for details. | |
| 0801 | Instructor: TBA | Seats (Total: 5) |
| | Contact instructor or department for details. | |

| | | |
|---|---|---|
| 0901 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1101 | Misha Kachman<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1301 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1501 | Lisa Nathans<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1601 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1701 | Helen Huang<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1801 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2001 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2002 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 3) |
| 2003 | Jenn Schwartz<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2005 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2007 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2009 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |

**THET390** **History of Theatre I**

(Perm req)

*Prerequisite: Permission of ARHU-School of Theatre, Dance & Performance Studies department.*

*The history of Western theatre from its origins in classical antiquity through the mid-seventeenth century with emphasis on plays and playwrights, architecture and decor, acting and costuming, and significant personalities. Includes explorations of interrelationships between Western theatre and the theatre of other cultures.*

| | | |
|---|---|---|
| 0101 | Caitlin Marshall<br>MW 12:00pm - 1:15pm | Seats (Total: 25)<br>PAC 1809 |

**THET399** **Independent Study**

(Perm req)

*An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.*

| | | |
|---|---|---|
| 0102 | Samuel Crawford<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0201 | Franklin Hildy<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0301 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0401 | Scot Reese<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0501 | Fatima Quander<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0601 | James Harding<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0701 | Jennifer Newsham<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0801 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 0901 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1101 | Misha Kachman<br>Contact instructor or department for details. | Seats (Total: 5) |

| | | |
|---|---|---|
| 1301 | Amith Chandrashaker<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1401 | Caitlin Marshall<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1501 | Lisa Nathans<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1601 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1701 | Helen Huang<br>Contact instructor or department for details. | Seats (Total: 5) |
| 1801 | Andrew Cissna<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2001 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2002 | KenYatta Rogers<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2003 | Jenn Schwartz<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2005 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2007 | Jared Mezzocchi<br>Contact instructor or department for details. | Seats (Total: 5) |
| 2009 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 5) |

**THET399H** **Independent Study; London Stage**

*An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.*

**Contact department for information to register for this course.**

**THET399W** **Independent Study; The London Stage**

*An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.*

**Contact department for information to register for this course.**

**THET399X** **Independent Study; The London Stage**

*An independent study in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate in term papers, scenic; lighting, or costume designs; or a stage production.*

**Contact department for information to register for this course.**

**THET408U** **Seminar: Theory and Performance Studies; Theatre About Show Business**

*Studies in theatre theory and performance studies from classical antiquity to the present.*

| | | | |
|---|---|---|---|
| 0101 | James Harding | Seats (Total: 15) | |
| | Tu 4:00pm - 6:30pm | PAC 1815 | |

**THET429** **Actor's Studio**

(Perm req)

*Participation in dramatic roles executed under faculty supervision in the department's productions. Eligible students must make commitments and plan performances with course instructor during pre-registration.*

**Contact department for information to register for this course.**

**THET465** **History of Fashion for the Theatre**

*Prerequisite: THET116; or permission of instructor. Restriction: Sophomore standing or higher.*

*A survey of Western clothing from the Ancient Worlds through 20th Century. A discussion of the cultural contexts of various trends in fashion through an examination of art, industry and textiles.*

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|---|---|---|---|
| 0101 | Misha Kachman | Seats (Total: 18) | |
| | Tu 9:00am - 10:50am | PAC 2733 | |

**THET471** **Design Studio in Scenery**

*Prerequisite: THET371; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Jointly offered with THET639. Credit only granted for: THET471 or THET639.*

*Advanced study of scenic design for the theatre. Particular design projects will vary.*

| | | | |
|---|---|---|---|
| 5501 | Misha Kachman | Seats (Total: 2) | |
| | W 12:00pm - 2:50pm | PAC 2733 | Lab |

**THET477** **Design Studio in Lighting**

(Perm req)

*Prerequisite: THET377; and permission of ARHU-School of Theatre, Dance & Performance Studies department. Jointly offered with THET659. Credit only granted for: THET477 or THET659.*

*Designed for students who have successfully completed THET377 and wish to further develop their lighting design skills. Emphasis is on theoretical design of productions and realized light lab projects. Particular design projects will vary.*

Students must pay a $25 lab fee.

| | | | |
|---|---|---|---|
| 5501 | Amith Chandrashaker | Seats (Total: 3) | |
| | MW 3:00pm - 4:50pm | PAC 3731 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**THET480** **Advanced Sound Design**

*Prerequisite: THET380 and permission of the School of Theatre, Dance, and Performance Studies.*

*Students will dive deeper into the technical elements of sound design, developing a working understanding of both software editing tools as well as the primary components of a live sound system.*

| | | | |
|---|---|---|---|
| 5501 | Samuel Crawford | Seats (Total: 10) | |
| | TuTh 1:30pm - 2:45pm | PAC 2727 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**THET481** **Theatre Graphics II: Computer Assisted Design**

(Perm req)

*Prerequisite: THET114 or TDPS201; and THET116; and permission of ARHU-Theatre department. Restriction: Sophomore standing or higher.*

*Study and practical application of computer generated graphical design for use in theatrical production.*

Students must pay a $25 course fee.

| | | | |
|---|---|---|---|
| 5501 | Andrew Cissna | Seats (Total: 3) | |
| | MW 10:00am - 11:50am | PAC 2727 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**THET489L** **Special Topics in Theatre History from 1800 to Present; LGBTQ Theatre**

*Topics in the history of world theatre and performance from 1800 to present.*

| | | | |
|---|---|---|---|
| 0101 | Carla Della Gatta | Seats (Total: 15) | |
| | TuTh 11:00am - 12:15pm | ARC 1123 | |

**THET499** **Independent Study**

(Perm req)

*An independent study course in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers, scenic or costume designs, or a stage production.*

**Contact department for information to register for this course.**

**THET499B** **Independent Study; Figure Drawing for Theatre Design**

(Perm req)

*An independent study course in which each student completes an assigned major theatre project under close faculty supervision. Projects may culminate with term papers, scenic or costume designs, or a stage production.*

Students must pay a $25 lab fee

| | | | |
|---|---|---|---|
| 5501 | Susan O'Neill | Seats (Total: 6) | |
| | F 9:00am - 11:50am | PAC 3736 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**THET600** **Introduction to Graduate Research Methods**

(Perm req)

*Restriction: Must be a graduate student in a Theatre program. Also offered as: THET700. Credit only granted for: THET600 or THET700. Additional information: Only students in the doctoral program may register for THET700.*

*Basic skills in theatre research.*

| | | |
|---|---|---|
| 0101 | Carla Della Gatta | Seats (Total: 12) |
| | TuTh 1:30pm - 2:45pm | PAC 2733 |

**THET606** **Teaching Theatre**

(Perm req)

*Strategies and materials for teaching a typical introductory course in theatre, with emphasis on specific problems of classroom instruction (e.g., creating a supportive climate, promoting active learning by students, constructing appropriate tests, adapting methods to content, and resolving discipline problems).*

| | | |
|---|---|---|
| 0101 | Crystal Davis | Seats (Total: 18) |
| | Tu 3:00pm - 4:15pm | PAC 3730 |

**THET608F** **Seminar: Theory and Performance Studies; Aesthetics of Collaboration in Performance: Theory & Practice**

*A repeatable seminar on special topics in theory of the Theatre and Performance Studies.*

This class offers practical methods for the creation and analysis of collaborative performance projects. Taking for granted that all performance works engage collaboration, this class is organized around themes of media, materiality, site-specificity, and working within and against systems. These themes are the organizing principles for student projects, as well as exemplary works of theory and performance. Finally, this class, being about collaboration, looks at strategies for working together, and carries with it an ethic of kindness, constructive critique, and mutual support.

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|---|---|---|---|
| 0101 | Lins Derry | Seats (Total: 15) | |
| | MW 2:30pm - 3:45pm | PAC 1809 | |

**THET608M** **Seminar: Theory and Performance Studies; Theatre About Show Business**

*A repeatable seminar on special topics in theory of the Theatre and Performance Studies.*

| | | | |
|---|---|---|---|
| 0101 | James Harding | Seats (Total: 15) | |
| | Tu 4:00pm - 6:30pm | PAC 1815 | |

**THET633** **Figure Drawing for Theatre Design**

*Credit only granted for: THET633 or THET669F. Formerly: THET669F.*

*Figure Drawing is designed to give students the necessary drawing skills that are required when drawing and painting for the theatre. We will study anatomy, figure/ground relationships, composition plotting and layout, planar value, light and shadow analysis, color theory and the fundamentals of perspective and how this applies to theatre design.*

| | | | |
|---|---|---|---|
| 5501 | Susan O'Neill | Seats (Total: 10) | |
| | F 9:00am - 11:50am | PAC 3736 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**THET639** **Graduate Design Studio - Scenery**

*A repeatable course that allows students to progress in their design training through a series of carefully and individually structured assignments and projects.*

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|---|---|---|---|
| 5501 | Misha Kachman | Seats (Total: 10) | |
| | W 12:00pm - 2:50pm | PAC 2733 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**THET645** **Graduate Rendering for Costume Design**

*Credit only granted for: THET669R or THET645. Formerly: THET669R.*

*Advance study in rendering techniques for theatrical design presentation.*

| | | | |
|---|---|---|---|
| 5501 | Helen Huang | Seats (Total: 8) | |
| | Th 1:30pm - 4:20pm | PAC 2755 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**THET649** **Graduate Design Studio - Costume**

*A series of carefully and individually structured assignments and projects that allows students to progress in their design training.*

Students must pay a $25 course fee. Class is for First, Second, and Third Year MFA students.

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|---|---|---|---|
| 5501 | Helen Huang | Seats (Total: 6) | |
| | Tu 10:00am - 12:30pm | PAC 2755 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**THET659** **Graduate Design Studio - Lighting**

*We will focus on connecting subject matter to light. Questions of meaning, structure, process, and intent will be investigated. The class will also explore the qualities and functions of light, what light can and cannot communicate. Students will develop a visual and conceptual vocabulary. Emphasis will be placed on process, both intellectual and practical.*

Students must pay a $25 course fee. Contact instructor for days/times.

| | | | |
|---|---|---|---|
| 5501 | Amith Chandrashaker | Seats (Total: 6) | |
| | MW 3:00pm - 4:50pm | PAC 3731 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**THET669** **Independent Study**

(Perm req)

**Contact department for information to register for this course.**

**THET669I** **Independent Study; Sound Design**

| | | | |
|---|---|---|---|
| 5501 | Samuel Crawford | Seats (Total: 3) | |
| | TuTh 1:30pm - 2:45pm | PAC 2727 | |

**THET669O** **Independent Study; Graduate Lighting Design Studio II**

(Perm req)

Students must pay a $25 lab fee.

| | | | |
|---|---|---|---|
| 0101 | Amith Chandrashaker | Seats (Total: 6) | |
| | M 10:00am - 12:50pm | PAC 2755 | Lab |
| | Class time/details on ELMs | ONLINE | Lab |

**THET669T** **Independent Study; Theatre Graphics II: Computer Assisted Design**

(Perm req)

Students must pay a $25 lab fee

| | | |
|---|---|---|
| 5501 | Andrew Cissna<br>MW 10:00am - 11:50am | Seats (Total: 8)<br>PAC 2727 |

**THET669U** **Independent Study; Arts Entrepreneurship: Theory and Practice**

Credit only granted for TDPS458E or THET669U. Based on social and arts entrepreneurship knowledge as well as contemporary professional practice, this class establishes arts entrepreneurship as a unique discipline with the goal of connecting creative initiatives (products, artforms, and programs) to audiences, resources, and communities. With a focus on the artist entrepreneur, this course introduces students to the ways in which creative initiatives both create value andoffer solutions to social, political, environmental, and cultural issues. Students will develop artist impact statements and identify different contexts and ways to apply their talents and creative initiatives in society.

| | | |
|---|---|---|
| 0101 | Kate Keeney<br>TuTh 11:00am - 12:15pm | Seats (Total: 5)<br>PAC 1809 |

**THET680** **History of Fashion for Theatre**

*Credit only granted for: THET680 or THET669A. Formerly: THET669A.*

*Evolution of clothing styles and materials through history, from early Mid-Eastern civilizations to the present day.*

| | | |
|---|---|---|
| 0101 | Misha Kachman<br>Tu 9:00am - 10:50am | Seats (Total: 18)<br>PAC 2733 |

**THET700** **Introduction to Graduate Research Methods**

(Perm req)

*Restriction: Must be a graduate student in a Theatre program. Also offered as: THET600. Credit only granted for: THET600 or THET700. Additional information: Only students in the doctoral program may register for THET700.*

*Basic skills in theatre research.*

| | | |
|---|---|---|
| 0101 | Carla Della Gatta<br>TuTh 1:30pm - 2:45pm | Seats (Total: 12)<br>PAC 2733 |

**THET713** **Performance Studies**

*Prerequisite: THET700.*

*Introduces doctoral students to theoretical and methodological issues in performance studies. We will focus on 3 primary areas of research, analyzing representational strategies of adaptations, ethnography, and cultural analysis of theatrical performance.*

| | | |
|---|---|---|
| 0101 | Caitlin Marshall | Seats (Total: 10) |
| | MW 2:30pm - 3:45pm | PAC 1815 |

**THET788** **Design for Live Performance Tutorial**

(Perm req)

*Collaboration with a faculty member on joint creative and artistic projects. A tutorial that assists students in developing a professional design portfolio, monitors practical production efforts and addresses practical production skills that may not be offered in traditional design studios.*

**Contact department for information to register for this course.**

**THET789** **Theatre Design Process and Production**

(Perm req)

*The class encompasses various areas of pedagogical interactions between MFAD students and their mentors which include, but are not limited to: design advising and supervision for mainstage design assignments and professional projects outside the School, production process supervision (shop walkthroughs, fittings, technical rehearsals, note sessions), mandatory design critiques, assisting faculty members on outside professional projects etc.*

**Contact department for information to register for this course.**

**THET799** **MFA Theatre Design Thesis**

(Perm req)

*Research and preparation of the MA or MFA thesis. MA/MFA students must be registered for this class during the semester in which they defend their thesis.*

**Contact department for information to register for this course.**

**THET888** **Doctoral Practicum in Theatre**

(Perm req)

*Critical analysis of a phase of a professional field of theatre. Analysis of professional activity through personal observation. Evaluation of the purpose, process, effectiveness, and efficiency of professional activity. Recommendations for training and further research.*

**Contact department for information to register for this course.**

**THET889** **Doctoral Tutorial in Theatre**

(Perm req)

*Individual research in theatre.*

**Contact department for information to register for this course.**

**THET898** **Pre-Candidacy Research**

(Perm req)

*Research and preparation for the Comprehensive Examinations and for the Qualifying Examinations. Students must register for at least one of these classes in each of the semesters in which these exams are taken and may register for two THET 898 courses in a semester if they are taught by different instructors. (Total credits per semester for all courses must not exceed 10 credits, 6 credits during the winter term.)*

**Contact department for information to register for this course.**

**THET899** **Doctoral Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# TLPL Teaching and Learning, Policy and Leadership Fall 2024

**TLPL101** **Inquiry Approach to Teaching STEM (Step 1)**

*Additional information: Students must allow for a three-hour window between 7:45 AM and 3:15 PM in their schedule for field experiences in a local school 3-4 times during the semester. A background check is required and will be facilitated by the Terrapin Teacher program coordinator.*

*Explore STEM teaching and learning and classroom complexity, and develop teaching skills through discussion-based, collaborative class sessions, and experiences in local schools. To explore/understand the fundamentals of inquiry teaching, students will observe, plan and teach student-centered lessons.*

| | | |
|---|---|---|
| 0101 | Milen Matthews<br>M 3:00pm - 4:20pm | Seats (Total: 24)<br>PHY 1120 |
| 0201 | Steven Karig<br>Th 12:30pm - 1:50pm | Seats (Total: 24)<br>PHY 1120 |
| 0301 | Aaron Kyei-Asare<br>Th 3:30pm - 4:50pm | Seats (Total: 24)<br>PHY 1120 |

**TLPL102** **Inquiry Teaching of STEM in Middle School**

*Prerequisite: Must have completed TLPL101. Additional information: Attendance at each class session will be vital to student success in the course. To complete the observations and lessons, students must allow a three hour block of time during the local middle school operational hours from 7:45 am to 3:15 pm. A background check is required.*

*Second course in the Terrapin Teachers teacher preparation sequence. Students gain field experience and continue exploring teaching as a career by conducting teacher observations, and planning and implementing lessons in local, high-need middle school classrooms. Students work closely with UM master teachers to build upon the inquiry-based teaching practices developed in TLPL 101. Students work with mathematics and science curricula while attending to state and district standards, in order to develop and enact lessons that are responsive to students' reasoning in math and science.*

| | | |
|---|---|---|
| 0101 | Anita Sanyal<br>W 3:00pm - 4:50pm | Seats (Total: 22)<br>PHY 1120 |

**TLPL206** **Forbidden Books: Censorship of Children's and Young Adult Literature**

*Credit only granted for: TLPL288W or TLPL206. Formerly: TLPL288W.*

*What is the relationship between censorship and intellectual freedom? This course examines the history of censorship from Plato to Fake News with a focus on contemporary censorship analyzed through historical, political, ethical, moral, philosophical, and socio-cultural perspectives. We consider the evolving definition of censorship, forms of censorship, the rationalizations and arguments for censorship, and the consequences and unintended results of censorship.*

| | | |
|---|---|---|
| 0101 | Wayne Slater<br>TuTh 12:30pm - 1:45pm | Seats (Total: 60)<br>TWS 1100 |

**TLPL250** **Historical and Philosophical Perspectives on Education**

*Credit only granted for: EDPS210 or TLPL250. Formerly: EDPS210.*

*An examination of illustrative historical and philosophical examples of the interplay of ideas and events in the shaping of educational aims and practices from ancient cultures to modern technological societies.*

| | | |
|---|---|---|
| 0101 | Campbell Scribner<br>TuTh 12:30pm - 1:45pm | Seats (Total: 30)<br>SQH 1105 |
| 0201 | Stephanie Chou<br>MW 10:00am - 11:15am | Seats (Total: 30)<br>TWS 0221 |
| 0301 | Lisa Eaker<br>Tu 11:00am - 12:15pm<br>Th 11:00am - 12:15pm | Seats (Total: 30)<br>LEF 1201<br>LEF 1220 |
| 0401 | Chelsea Stolt<br>MW 1:00pm - 2:15pm | Seats (Total: 30)<br>SQH 2120 |

**TLPL251** **Community, Learners, and Classroom Climate**

*Additional information: This course has a field component in a local elementary school.*

*Focuses on classroom community building as an ethic of caring for students and examines the connection between classroom climate and learning. Topics include students' funds of knowledge, social-emotional competency, and the practices that maintain a safe and inclusive classroom climate. Wellness strategies to support teacher resilience are also addressed.*

Two-hour seminar each week on campus plus a four-hour lab each week which includes three hours in a local public school classroom and commute time to and from campus. Most schools are within a 20-minute commute with more travel time needed if public transportation is required. Allow for travel time between on-campus coursework and the off-campus public school experience. All schools require a Prince Georges County Public School security process that includes fingerprinting and a background check at an additional cost, prior to the start of the experience.

| | | | |
|---|---|---|---|
| 0101 | Karen Rehder<br>Tu 4:00pm - 5:50pm<br>Class time/details on ELMs<br>Tu 8:00am - 12:00pm | Seats (Total: 12)<br>TYD 2102<br>ONLINE<br>Location: TBA | Lab |
| 0102 | Karen Rehder<br>Tu 4:00pm - 5:50pm<br>Class time/details on ELMs<br>W 8:00am - 12:00pm | Seats (Total: 12)<br>TYD 2102<br>ONLINE<br>Location: TBA | Lab |
| 0103 | Karen Rehder<br>Tu 4:00pm - 5:50pm<br>Class time/details on ELMs<br>Th 8:00am - 12:00pm | Seats (Total: 12)<br>TYD 2102<br>ONLINE<br>Location: TBA | Lab |

**TLPL253** **Language Rights and Repression in Education**

*Many English-speaking Americans view societal monolingualism and English-speaking in schools as the standard. The proposed course will delve deeply into issues associated with language, language rights, education, and linguistic repression in schooling. The Big Question of our time this course asks is: Are access to education and native language maintenance civil rights? Human rights?*

| | | |
|---|---|---|
| 0101 | Sarah Moore<br>MW 10:00am - 11:15am | Seats (Total: 60)<br>ATL 1113 |

**TLPL286** **Accelerated Introduction to STEM Teaching**

*Credit only granted for: TLPL101 and TLPL102; or TLPL286. Additional information: For the lab component of this course, students must reserve a three-hour window in their schedules between the hours of 8am-3pm, to be utilized approximately 10 weeks in the semester. This lab will be a combination of collaborative group work and a fieldwork component in a local partner school, which requires fingerprinting and a background check (facilitated by Terrapin Teachers).*

*This course is the starting point for students pursuing or seriously considering the middle school or secondary STEM undergraduate and graduate certification pathways. This one-semester course will substitute for both TLPL101 and TLPL102, thereby accelerating the undergraduate pathway. Students will make four visits to a local middle school classroom to observe, facilitate discussions, and lead STEM lessons. Students can expect a highly collaborative, discussion-based exploration of STEM teaching and learning, classroom complexity, and social justice.*

| | | | |
|---|---|---|---|
| 0101 | Sarah Henson-Darko<br>M 3:00pm - 4:50pm<br>Class time/details on ELMs | Seats (Total: 20)<br>PHY 1108<br>ONLINE | <br><br>Lab |

**TLPL288D** **Special Problems in Education; Developmental Heuristics**

(Perm req)

*Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership. Available only to freshmen and sophomore students who have definite plans for individual study of approved problems relative to their preparation for teaching.*

| | | |
|---|---|---|
| 0101 | Sharon Vanwright<br>Contact instructor or department for details. | Seats (Total: 115) |

**TLPL288P** **Special Problems in Education; Experiential Learning of Geoscience: An Agency and School Visit Experience**

*Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership. Available only to freshmen and sophomore students who have definite plans for individual study of approved problems relative to their preparation for teaching.*

| | | |
|---|---|---|
| 0101 | Candice Duncan<br>Class time/details on ELMs | Seats (Total: 15)<br>ONLINE |

**TLPL298** **Special Problems in Education**

(Perm req)

*Exploration of current problems in teaching, learning, policy and leadership. Available only to students who have definite plans for study of approved problems.*

**Contact department for information to register for this course.**

**TLPL305B** **Curriculum and Instruction Cluster**

(Perm req)

| | | |
|---|---|---|
| 0101 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 30) |
| 0201 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 28) |
| 0301 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 30) |

**TLPL305M** **Curriculum and Instruction Cluster**

(Perm req)

| | | |
|---|---|---|
| 0101 | Instructor: TBA<br>Contact instructor or department for details. | Seats (Total: 20) |

**TLPL312** **Curriculum and Instruction in Elementary Education: Mathematics**

(Perm req)

*Prerequisite: TLPL361. Corequisite: EDCI362, EDCI342, TLPL321, and TLPL362. Restriction: Must be in Elementary Education program; and minimum cumulative GPA of 2.75; Or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI352 or TLPL312. Formerly: EDCI352.*

*Materials and procedures to help children sense arithmetical meanings and relationships. Development of an understanding of the number system and arithmetical processes. Includes laboratory/field experiences.*

| | | |
|---|---|---|
| 0101 | Sara Kirschner<br>M 12:00pm - 2:45pm<br>Contact instructor or department for details. | Seats (Total: 0)<br>EDU 2121 |
| 0201 | Sara Kirschner<br>Th 8:30am - 11:15am<br>Contact instructor or department for details. | Seats (Total: 0)<br>EDU 2121 |
| 0301 | Sara Kirschner<br>Tu 12:30pm - 3:15pm<br>Contact instructor or department for details. | Seats (Total: 0)<br>EDU 2121 |

**TLPL321** **Curriculum and Instruction in Elementary Education: Science**

(Perm req)

*Prerequisite: TLPL361. Corequisite: TLPL312, EDCI362, EDCI342, and TLPL362. Restriction: Must be in Elementary Education program; and minimum cumulative GPA of 2.75; Or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI372 or TLPL321. Formerly: EDCI372.*

*Objectives, methods, materials and activities for teaching science in the elementary school; emphasis on teaching strategies which help children learn the processes and concepts of science. Includes laboratory/field experiences.*

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|---|---|---|
| 0101 | Daniel Levin<br>M 8:30am - 11:15am | Seats (Total: 0)<br>EDU 2212 |
| 0201 | Amy Green<br>Th 12:00pm - 2:45pm<br>Contact instructor or department for details. | Seats (Total: 0)<br>EDU 2212 |

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|---|---|---|
| 0301 | Chinonso Ude<br>Tu 9:00am - 11:45am | Seats (Total: 0)<br>EDU 2212 |

**TLPL340** **Introduction to Children's Literature and Critical Literacy**

*Restriction: Must be in Elementary Education program; or must be a Pre-Education Major. Credit only granted for: EDCI443 or TLPL340. Formerly: EDCI443.*

*Analysis of literary materials for children and youth. Timeless and ageless books, and outstanding examples of contemporary publishing. Evaluation of the contributions of individual authors, illustrators and children's book awards.*

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|---|---|---|
| 0101 | Shannon Kane<br>MW 1:00pm - 2:15pm | Seats (Total: 22)<br>EDU 3236 |
| 0201 | Ayanna Baccus<br>MW 2:30pm - 3:45pm | Seats (Total: 25)<br>SQH 1123 |

**TLPL341** **Assessing Language and Literacy Development in Elementary Classrooms**

(Perm req)

*Corequisite: TLPL479, EDHD411, and EDSP401. Restriction: Must be in the Elementary Education program; and permission of EDUC-Teaching and Learning, Policy and Leadership. Credit only granted for: TLPL341 or TLPL488R. Formerly: TLPL488R.*

*An exploration of the social and cognitive processes involved in reading and writing, the developmental nature of those processes, the foundational concepts associated with effective literacy assessment, a variety of formative and summative literacy assessments, and the nature of individual differences in reading and writing.*

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|---|---|---|
| 0101 | Shannon Kane<br>M 9:00am - 11:45am | Seats (Total: 24)<br>EDU 2121 |
| 0201 | Shannon Kane<br>Tu 9:00am - 11:45am | Seats (Total: 25)<br>LEF 1220 |
| 0301 | Olivia Saracho<br>Th 9:00am - 11:45am | Seats (Total: 28)<br>EDU 1107 |

**TLPL343** **Promoting Skilled and Motivated Readers in Diverse Elementary Classrooms (Part 2)**

(Perm req)

*Corequisite: TLPL312, TLPL321, TLPL446, and TLPL489. Restriction: Must be in the Elementary Education program; and permission of EDUC-Teaching and Learning, Policy and Leadership. Credit only granted for: TLPL343 or TLPL488F. Formerly: TLPL488F.*

*Application of the materials, curriculum, teaching and learning practices and assessment methods associated with classroom reading programs designed to promote skilled and motivated readers in diverse elementary classrooms. Teacher candidates will learn to assess and scaffold students' self-regulated literacy learning in line with students' individual needs and Maryland College and Career Ready Standards.*

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|---|---|---|
| 0101 | Rose Cherussery<br>Tu 12:00pm - 2:45pm | Seats (Total: 0)<br>EDU 2212 |
| 0201 | Kerry Alexander<br>W 8:30am - 11:15am | Seats (Total: 0)<br>EDU 1315 |
| 0301 | Ayanna Baccus<br>M 8:30am - 11:15am | Seats (Total: 0)<br>KNI 1103 |

**TLPL360** **Foundations of Education**

*Credit only granted for: EDPS301 or TLPL360. Formerly: EDPS301.*

*Social context of education and conflicts over philosophies, values, an goals that are reflected in educational institutions in our pluralistic society. Helps teachers become reflective, critical thinkers about the social and philosophical issues they face and the choices they make.*

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|---|---|---|
| 0201 | Colin McCarthy<br>MW 11:00am - 12:15pm | Seats (Total: 30)<br>EDU 1121 |
| 0301 | Cody Norton<br>TuTh 2:00pm - 3:15pm | Seats (Total: 30)<br>EDU 2119 |

**TLPL401** **Student-Centered Curriculum and Instruction**

(Perm req)

*Prerequisite: Permission of instructor; and TLPL102; and must have completed or be concurrently enrolled in TLPL414. Credit only granted for: TLPL488P or TLPL401. Formerly: TLPL488P. Additional information: Field experience for this course will require students to be available for a 2-4 hour block of time at various points throughout the semester to complete observations and teach lessons between 8:00 a.m. and 3:30 p.m. A background check is required and will be facilitated through the Terrapin Teacher program coordinator.*

*A focus on using student-centered teaching and learning approaches in high school STEM classrooms. Students will develop and implement a multi-day series of lessons, building upon the foundations of inquiry-based practices developed in prior courses. Students will also consider the implications of cultural awareness on teaching practices broadly, as well as in the specific contexts of their fieldwork.*

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|---|---|---|
| 0101 | Sarah Henson-Darko<br>TuTh 2:00pm - 3:20pm | Seats (Total: 24)<br>PHY 1108 |

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|---|---|---|
| 0201 | Dana Grosser-Clarkson<br>TuTh 2:00pm - 3:20pm | Seats (Total: 24)<br>PHY 1120 |

**TLPL403** **Teaching and Learning High School Mathematics**

*Prerequisite: Must have 2 semesters of calculus; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Corequisite: EDCI355. Restriction: Must be in Secondary Educ: Mathematics program; and minimum cumulative GPA of 2.75; Or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI455 or TLPL403. Formerly: EDCI455.*

*Methods of teaching and assessing the high school mathematics curriculum; aligning tasks and activities to curriculum standards; lesson planning; and selection and use of technology. The course also focuses on managing large group dynamics in the high school mathematics classroom.*

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| 0101 | Farhaana Nyamekye-Frazier<br>M 5:00pm - 8:00pm | Seats (Total: 24)<br>PHY 1120 |

**TLPL406** **Teaching and Learning Mathematics in the Elementary School, Part 1**

*Jointly offered with: TLPL607. Credit only granted for: TLPL607 or TLPL406.*

*Focuses on teaching and learning whole numbers. Special emphasis will be placed on developing equitable teaching practices that enable culturally and linguistically diverse students to develop knowledge and skills that promote mathematical proficiency. Mathematical concepts: Content knowledge: some aspects of early numeracy, whole numbers and the four arithmetic operations, some aspects of algebraic thinking.*

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|---|---|---|
| PXK3 | Carolina Napp-Avelli<br>**Meets August 26, 2024 - October 16, 2024**<br>Tu 5:00pm - 8:00pm<br>W 5:00pm - 8:00pm | Seats (Total: 15)<br><br>Location: TBA<br>ONLINE |
| | *Must be in Curriculum and Instruction (M.Ed.), CITE to register. Golden ID students are not eligible for this section. Meeting Dates: Tuesdays: 8/27, 9/3, 9/10, 9/17, 9/24, 10/1, 10/8, 10/15 at Laurel College Center (Room 502)* | |

**TLPL407** **Teaching and Learning Mathematics in the Elementary School, Part 2**

*Credit only granted for: TLPL488G or TLPL407.*

*Focuses on teaching and learning rational numbers (fractions and decimals) and developing algebraic thinking. Special emphasis will be placed on developing equitable teaching practices that enable culturally and linguistically diverse students to develop knowledge and skills that promote mathematical proficiency. Mathematical concepts: Content knowledge: rational numbers (fractions and decimals) and the four arithmetic operations, algebraic thinking, some aspects of geometry and measurement.*

| | | |
|---|---|---|
| PXK2 | Angela Stoltz<br>**Meets August 26, 2024 - December 10, 2024**<br>Tu 5:00pm - 8:00pm<br>Class time/details on ELMs | Seats (Total: 20)<br><br><br>Location: TBA<br>ONLINE |

*Must be in Curriculum and Instruction (M.Ed.), CITE to register. Golden ID students are not eligible for this section.*

**TLPL413** **Teaching and Learning Middle School Mathematics**

(Perm req)

*Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI457 or TLPL413. Formerly: EDCI457.*

*Methods of teaching and assessing the middle school mathematics curriculum. Understanding the conceptual difficulties students have in moving from whole numbers to rational numbers, additive thinking to multiplicative thinking, and arithmetic to algebra. Lesson planning and selection of technology and other materials are applied in the context of supervised tutoring of students having difficulty in middle school mathematics. Lab and field experience required. Supervised tutoring takes place on site at a local middle school therefore TLPL413 students will be expected to travel to a local middle school for 8-10 of the class meetings.*

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|---|---|---|
| 0101 | Daniel Chazan<br>TuTh 3:10pm - 5:00pm | Seats (Total: 25)<br>SQH 1111 |

**TLPL414** **Knowing and Learning in Mathematics and Science**

(Perm req)

*Prerequisite: Must have completed or be concurrently enrolled in TLPL102. Credit only granted for: TLPL488M or TLPL414. Formerly: TLPL488M.*

*Special and intensive treatment of current topics and issues in mathematics and science teaching and learning, policy and leadership. The overall goal of the course is to orient future teachers to the discourses and theories that shape what we know about how students learn math and science.*

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| 0101 | Anita Sanyal<br>TuTh 9:30am - 10:45am | Seats (Total: 24)<br>PHY 1120 |

**TLPL420** **Knowledge, Reasoning, and Learning in Science**

(Perm req)

*Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: TLPL420 or EDCI411. Formerly: EDCI411.*

*For prospective science teachers. Investigations of the nature of knowledge, reasoning, and learning in middle and secondary science. Readings from cognitive science and science education research; studies of student thinking in interview and classroom observations; analyses of curricula. Includes laboratory and field experiences.*

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|---|---|---|
| 0101 | Sarah Henson-Darko | Seats (Total: 0) |
| | TuTh 3:30pm - 4:45pm | EDU 2212 |

**TLPL423** **Interdisciplinary Teaching in the Middle Grades I**

(Perm req)

*Prerequisite: TLPL413 and TLPL420; or permission of instructor. Corequisite: EDCI360 and TLPL475. Restriction: Minimum cumulative GPA of 2.75; and must be in the Middle School Teacher Education Program, major code 0804P. Credit only granted for: EDCI413 or TLPL423. Formerly: EDCI413.*

*For prospective middle school teachers. Studying and planning interdisciplinary instructional practices in middle school. Utilizes context and experiences from students' field placements. Use of technology and incorporation of technology into instruction.*

| | | |
|---|---|---|
| 0101 | Sarah Henson-Darko | Seats (Total: 0) |
| | M 10:00am - 11:50am | PHY 1108 |

**TLPL425** **Learning and Teaching in Science**

*Prerequisite: TLPL420; or permission of instructor. Restriction: Must be in Secondary Educ: Science program. Credit only granted for: EDCI470 or TLPL425. Formerly: EDCI470.*

*Studies of student learning and instructional practices in science teaching.*

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|---|---|---|
| 0101 | Daniel Levin | Seats (Total: 24) |
| | M 2:30pm - 5:30pm | PHY 1120 |

**TLPL433** **Foundations of Art Education**

*Restriction: Minimum cumulative GPA of 2.75. Credit only granted for: EDCI403 or TLPL433. Formerly: EDCI403.*

*Introduction to the field of Art Education and the role of the visual arts in grades PreK-12 for today's diverse school populations. The fundamental, historical and philosophic components of art education with an emphasis on arts disciplines and curriculum. Includes a school-based practicum. For those considering art education as a major.*

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|---|---|---|
| 0101 | Margaret Walker | Seats (Total: 19) |
| | Th 9:00am - 12:00pm | EDU 1315 |

**TLPL436** **Studio Processes and Materials: 2D**

(Perm req)

*Prerequisite: ARTT210. Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department; and junior standing or higher; and must not be in any of the following programs (Early Childhood Education; Elementary Education; Secondary Educ: Science; Secondary Educ: English Language Arts; Secondary Educ: Mathematics; Secondary Educ: Foreign Languages; Secondary Educ: Social Studies; Physical Education; Music Education; Special Education). Credit only granted for: EDCI406 or TLPL436. Formerly: EDCI406.*

*A discussion/studio format used to develop skills, materials, resources and education strategies for using technology and two-dimensional art in K-12 programs.*

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|---|---|---|
| 0101 | Margaret Walker<br>Th 12:30pm - 4:05pm | Seats (Total: 15)<br>EDU 1315 |

**TLPL440** **Foundations of Educating Multilingual Learners**

*Credit only granted for: EDCI432 or TLPL440. Formerly: EDCI432.*

*Investigates historical, theoretical, and public policy issues and current practice in the field of education as it relates to multilingual learners (also known as English Language Learners, English Learners) in K-12 and other settings.*

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|---|---|---|
| 0101 | Laura Mahalingappa<br>TuTh 12:30pm - 1:45pm | Seats (Total: 22)<br>ASY 3207 |

**TLPL442** **Foundations of Literacy and Biliteracy Development**

*Credit only granted for: EDCI435 or TLPL442. Formerly: EDCI435.*

*An overview of the research on literacy and biliteracy development for English learners. Specifically, the course explores the theoretical models and processes of teaching reading and writing, current literacy/biliteracy issues, assessment, and strategies for developing literacy and biliteracy skills for English learners.*

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|---|---|---|
| 0101 | Sandra Gutierrez<br>MW 12:30pm - 1:45pm | Seats (Total: 22)<br>TWS 1106 |

**TLPL443** **Cross-Cultural Communication and Multilingual Learners**

*Credit only granted for: EDCI436 or TLPL443. Formerly: EDCI436.*

*Participants will research and critically reflect upon aspects of culture as a basis to understand students and to develop principles to guide culturally inclusive teaching decisions. Participants will better understand the role of culture and language in schooling in order to create classrooms where culturally and linguistically diverse students (also known as English Language Learners, English Learners) can succeed.*

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| 0101 | Monica Obiri-Yeboah<br>W 1:15pm - 3:50pm | Seats (Total: 25)<br>ESJ 1309 |

**TLPL445** **Methods I: K-12 World Language Methods and Technology**

(Perm req)

*Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: TLPL445 or TLPL695.*

*Explores Dual Language/World Language Methods and Second Language/Bilingual development. Implications for teaching and initial lesson design are explored through on-campus seminars as well as guided field experiences. Students should reserve a regular half-day per week for the field experience in local schools.*

Lab and field experiences required. Students should reserve a regular half-day per week for the field experience in local schools.

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|---|---|---|
| 0101 | Antonio Perez Belda<br>Th 5:00pm - 7:45pm | Seats (Total: 15)<br>TWS 1106 |

**TLPL446** **Language Variation and Multilingualism in Elementary Classrooms**

(Perm req)

*Restriction: Must be in Elementary Education program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching and Learning, Policy and Leadership department.*

*Issues in language variation and multilingualism in elementary classrooms, schools and communities with a focus on classroom practice, assessment, and policy.*

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|---|---|---|
| 0101 | Kellie Rolstad<br>Tu 8:30am - 11:15am | Seats (Total: 0)<br>EDU 1107 |
| 0201 | Sarah Moore<br>W 12:00pm - 2:45pm | Seats (Total: 0)<br>EDU 2212 |
| 0301 | Sarah Moore<br>M 12:00pm - 2:45pm | Seats (Total: 0)<br>LEF 0135 |

**TLPL447** **Art Education Methods II**

(Perm req)

*Prerequisite: TLPL435; or students who have taken courses with comparable content may contact the department. Restriction: Minimum cumulative GPA of 2.75; and must be in Secondary Educ: Art program. Credit only granted for: EDCI423, EDCI603, TLPL447 or TLPL633. Formerly: EDCI423.*

*Methods II builds upon the pedagogical foundation of Methods I and provides future art teachers with the means for developing pre K-12 art lessons and unit plans for a balanced qualitative art program for today's diverse and inclusive schools and classrooms.*

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|---|---|---|---|
| 0101 | Katherine Coogan | Seats (Total: 18) | |
| | Tu 9:00am - 11:50am | EDU 1315 | |

**TLPL450** **Advanced K-12 World Language Methods and Technology**

(Perm req)

*Prerequisite: TLPL445. Corequisite: EDCI438. Restriction: Must be in Secondary Educ: Foreign Languages program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI433, EDCI688A, TLPL450 or TLPL696. Formerly: EDCI433.*

*Teaches advanced best practices for effective world language instruction. Topics include: using authentic assessment and materials, applying national standards, teaching writing and culture, motivating students, providing strategy instruction, infusing technology, preparing for PreK-12 employment, and creating a professional portfolio.*

EDCI438 must be taken concurrently with EDCI433.

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|---|---|---|---|
| 0101 | Antonio Perez Belda | Seats (Total: 5) | |
| | M 5:00pm - 7:45pm | EDU 2101 | |

**TLPL451** **Teaching and Learning in Secondary Education: English**

(Perm req)

*Credit only granted for: EDCI416 or TLPL451. Formerly: EDCI416.*

*An introduction for prospective middle and secondary English teachers into the basic issues, concepts, orientations, and processes that shape the teaching of English for diverse students in schools. Candidates explore their own perspectives in relation to local and national trends and develop basic teaching understanding and skills through on-campus seminars, teaching laboratory experiences, and guided field experiences. Students should reserve one full day or two half days per week for field experience.*

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|---|---|---|---|
| 0101 | Peggy Wilson | Seats (Total: 25) | |
| | M 8:30am - 10:15am | EDU 3315 | |
| | W 8:30am - 10:15am | EDU 2121 | Lab |

**TLPL456** **Teaching Writing**

(Perm req)

*Corequisite: EDCI447. Restriction: Must be in Secondary Educ: English Language Arts program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI467 or TLPL456. Formerly: EDCI467.*

*Examines current theory, research, best practice, curricula and materials for teaching written communication in grades K-12. Focuses on analytical, argumentative, informative/explanatory, literary analysis, narrative, descriptive, and research writing. Emphasizes instructional planning, assessment, writer problem-solving strategies, information search, development, organization and style appropriate to task, purpose and audience for both non-digital and digital text. English Language Learner and special needs pupil issues considered.*

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|---|---|---|
| 0101 | Wayne Slater<br>Th 5:00pm - 7:45pm | Seats (Total: 30)<br>EDU 1107 |

**TLPL457** **Literature for Adolescents**

*Restriction: Minimum cumulative GPA of 2.75; and permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI466 or TLPL457. Formerly: EDCI466.*

*Reading and analysis of fiction and nonfiction; methods for critically assessing quality and appeal; current theory and methods of instruction; research on response to literature; curriculum design and selection of books.*

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| 0101 | Vivica Joines<br>MW 11:00am - 12:15pm | Seats (Total: 30)<br>EDU 1107 |

**TLPL460** **Materials and Instruction for Creating Skilled and Motivated Readers, Part I**

*Restriction: Must be in Elementary Education program; and junior standing or higher. Or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI461 or TLPL460. Formerly: EDCI461.*

*Explains the educational research that addresses the acquisition of reading and its underlying processes, including research-based reading instruction and materials. Learn how to create a literacy learning environment that helps diverse learners become skilled and motivated readers through phonemic awareness, phonics, fluency, comprehension, vocabulary, and whole and small-group instructional approaches.*

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|---|---|---|
| PXK3 | Ayanna Baccus<br>**Meets October 21, 2024 - December 11, 2024**<br>Tu 5:00pm - 8:00pm<br>W 5:00pm - 8:00pm | Seats (Total: 15)<br><br>Location: TBA<br>ONLINE |
| | *Must be in Curriculum and Instruction (M.Ed.), CITE to register. Golden ID students are not eligible for this section. Tuesdays: 10/22, 10/29, 11/5, 11/12, 11/19, 11/26, 12/3, 12/10 at Laurel College Center (Room 502)* | |

**TLPL462** **Reading in the Secondary School**

(Perm req)

*Restriction: Minimum cumulative GPA of 2.75; and must be in one of the following programs (Middle School Education; Secondary Educ: Science; Secondary Educ: English Language Arts; Secondary Educ: Mathematics; Secondary Educ: Foreign Languages; Secondary Educ: Social Studies; Secondary Educ: Art) ; and permission of department required for post-baccalaureate students. Credit only granted for: EDCI463 or TLPL462. Formerly: EDCI463.*

*Provides secondary school teachers with understanding the need for and approaches to teaching students to read and learn from content area texts.*

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|---|---|---|
| 0101 | Olivia Saracho<br>W 3:30pm - 6:00pm | Seats (Total: 22)<br>TWS 0205 |

**TLPL470** **Knowledge, Reasoning, and Learning in Secondary Social Studies**

(Perm req)

*Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department; and minimum cumulative GPA of 2.75. Credit only granted for: EDCI426 or TLPL470. Formerly: EDCI426.*

*An exploration of the nature of knowledge and reasoning in social studies disciplines as well as how students learn social studies. Assessment and investigation of students' conceptions and misconceptions as well as their disciplinary thinking. Implications for teaching and initial lesson design are explored through on-campus seminars as well as guided field experiences. Students should reserve a regular half-day per week for the field experience in local schools. This course is required for admission to the secondary social studies double major.*

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|---|---|---|
| 0101 | Lisa Eaker<br>Th 4:15pm - 7:00pm | Seats (Total: 30)<br>KEY 0102 |

**TLPL471** **Curriculum, Teaching, and Assessment in Secondary Social Studies**

(Perm req)

*Prerequisite: TLPL470. Corequisite: EDCI428. Restriction: Must be in Secondary Educ: Social Studies program; and minimum cumulative GPA of 2.75. Or permission of EDUC-Center for Learning & Educational Technology. Credit only granted for: EDCI427 or TLPL471. Formerly: EDCI427.*

*An exploration of curriculum development, teaching, and assessment in secondary history/social studies. Focus on identifying students' conceptions of social studies topics and designing lessons that advance students' disciplinary thinking and understanding.*

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|---|---|---|
| 0101 | Alison Jovanovic<br>M 4:30pm - 7:30pm | Seats (Total: 15)<br>KEY 0102 |

**TLPL475** **Equitable Classrooms**

(Perm req)

*Prerequisite: TLPL252, TLPL413, and TLPL420. Corequisite: EDCI360 and TLPL423. Restriction: Minimum cumulative GPA of 2.75; and must be in Middle School Education program. Credit only granted for: EDCI424 or TLPL475. Formerly: EDCI424.*

*An exploration and application of major theoretical frameworks surrounding equity and critical pedagogy. Creating habits of mind that help teachers see all students as capable of achieving at high levels. Draws on the concurrent field experience.*

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|---|---|---|
| 0101 | Carla Blackwell<br>Tu 10:00am - 12:00pm | Seats (Total: 0)<br>LEF 1222 |

**TLPL477** **Teaching Academically, Culturally, and Linguistically Diverse Students in Middle School and Secondary Education**

(Perm req)

*Restriction: Must be in the teacher education program; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: TLPL488B or TLPL477. Formerly: TLPL488B.*

*Instruction on methods of teaching academically, culturally, and linguistically diverse students in middle school and secondary classrooms.*

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|---|---|---|
| 0101 | Jennifer McCatharn<br>TuTh 9:00am - 9:50am | Seats (Total: 0)<br>EDU 3236 |
| 0201 | Taylor Lewis<br>W 5:30pm - 7:15pm | Seats (Total: 20)<br>ASY 3217 |

**TLPL478A** **Professional Seminar in Education; Art Education**

*Seminar on the issues and problems teacher candidates encounter in classrooms. Exploration of the skills and strategies that best address these challenges.*

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|---|---|---|
| 0101 | Katherine Coogan<br>Tu 12:00pm - 1:00pm | Seats (Total: 20)<br>EDU 1315 |

**TLPL478G** **Professional Seminar in Education; Elementary Education**

(Perm req)

*Seminar on the issues and problems teacher candidates encounter in classrooms. Exploration of the skills and strategies that best address these challenges.*

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|---|---|---|
| 0101 | Deborah Lewin<br>F 12:45pm - 3:45pm<br>Contact instructor or department for details. | Seats (Total: 0)<br>TWS 0320 |

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|---|---|---|---|
| 0201 | Brooke Dalesio<br>F 12:45pm - 3:45pm<br>Contact instructor or department for details. | Seats (Total: 0)<br>TWS 0320 | |
| 0301 | Tracy Dunheimer<br>F 12:45pm - 3:45pm<br>Contact instructor or department for details. | Seats (Total: 0)<br>TWS 0320 | |

**TLPL479A** **Field Experiences in Education; Art Education**

(Perm req)

*Field experiences in approved eduation setting with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.*

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|---|---|---|---|
| 0101 | Katherine Coogan<br>Contact instructor or department for details. | Seats (Total: 10) | |

**TLPL479B** **Field Experiences in Education; Secondary Social Studies Education**

(Perm req)

*Field experiences in approved eduation setting with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.*

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|---|---|---|---|
| 0101 | Alison Jovanovic<br>M 7:45pm - 9:00pm<br>Contact instructor or department for details. | Seats (Total: 35)<br>KEY 0102 | <br>Lab |

**TLPL479C** **Field Experiences in Education; English Education**

(Perm req)

*Field experiences in approved eduation setting with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.*

Secondary English/speech/drama education majors only. Students must reserve one full day per week for observation.

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|---|---|---|
| 0101 | Peggy Wilson<br>Contact instructor or department for details. | Seats (Total: 25) |

**TLPL479D** **Field Experiences in Education; Secondary Mathematics Education**

(Perm req)

*Field experiences in approved eduation setting with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.*

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|---|---|---|
| 0101 | Farhaana Nyamekye-Frazier<br>Contact instructor or department for details. | Seats (Total: 20) |

**TLPL479E** **Field Experiences in Education; Middle School Education**

(Perm req)

*Field experiences in approved eduation setting with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.*

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|---|---|---|
| 0101 | Angela Stoltz<br>Contact instructor or department for details. | Seats (Total: 0) |

**TLPL479F** **Field Experiences in Education; Science Education**

(Perm req)

*Field experiences in approved eduation setting with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.*

| | | |
|---|---|---|
| 0101 | Jennifer Mesiner<br>Contact instructor or department for details. | Seats (Total: 15) |

**TLPL479G** **Field Experiences in Education; Tutoring**

*Field experiences in approved eduation setting with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.*

Purchase of LiveText ($139) is required for this course. A fee for fingerprinting may be required.

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|---|---|---|
| 0102 | Jaclyn Klueger Stief<br>Tu 7:30am - 10:30am<br>Class time/details on ELMs | Seats (Total: 12)<br>Location: TBA<br>ONLINE |
| 0103 | Jaclyn Klueger Stief<br>W 7:30am - 10:30am<br>Class time/details on ELMs | Seats (Total: 12)<br>Location: TBA<br>ONLINE |
| 0104 | Jaclyn Klueger Stief<br>Th 7:30am - 10:30am<br>Class time/details on ELMs | Seats (Total: 12)<br>Location: TBA<br>ONLINE |

| | | |
|---|---|---|
| 0106 | Jaclyn Klueger Stief<br>Tu 2:00pm - 5:00pm<br>Class time/details on ELMs | Seats (Total: 15)<br>Location: TBA<br>ONLINE |
| 0107 | Jaclyn Klueger Stief<br>W 2:00pm - 5:00pm<br>Class time/details on ELMs | Seats (Total: 15)<br>Location: TBA<br>ONLINE |
| 0108 | Jaclyn Klueger Stief<br>Th 2:00pm - 5:00pm<br>Class time/details on ELMs | Seats (Total: 15)<br>Location: TBA<br>ONLINE |

**TLPL479J** **Field Experiences in Education; Second Language Education**

(Perm req)

*Field experiences in approved eduation setting with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.*

| | | |
|---|---|---|
| 0101 | Antonio Perez Belda<br>Contact instructor or department for details. | Seats (Total: 10) |

**TLPL479L** **Field Experiences in Education; Agriculture Education**

*Field experiences in approved eduation setting with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.*

| | | |
|---|---|---|
| 0101 | Melissa Welsh<br>Contact instructor or department for details. | Seats (Total: 10) |

**TLPL481** **Embracing Diversity in the Classroom Community**

*Restriction: Admission to teacher education program; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: TLPL481 or EDCI475. Formerly: EDCI475.*

*An exploration of the richness and complexity of student diversity that teacher candidates will encounter in K-12 classrooms. Students will engage in critical reflection around diversity and equity issues.*

| | | |
|---|---|---|
| 0101 | Briana Thomas<br>Tu 3:30pm - 6:15pm | Seats (Total: 25)<br>WDS 0104 |

**TLPL489** **Internship in Education**

(Perm req)

*Internship or residency experiences in school settings with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.*

**Contact department for information to register for this course.**

**TLPL489D** **Internship in Education; Mathematics**

(Perm req)

*Internship or residency experiences in school settings with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.*

**Contact department for information to register for this course.**

**TLPL489G** **Internship in Education; TEACHING RESIDENCY**

(Perm req)

*Internship or residency experiences in school settings with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.*

Students must pay a $350.00 lab fee.

| | | |
|---|---|---|
| 0101 | Deborah Lewin | Seats (Total: 30) |
| | Contact instructor or department for details. | |
| | *Field Experience is Wednesday and Thursday and all Fridays when TLPL478G is not scheduled. Time will follow the assigned school schedule.* | |
| 0201 | Brooke Dalesio | Seats (Total: 30) |
| | Contact instructor or department for details. | |
| | *Field Experience is Monday and Tuesday and all Fridays when TLPL478G is not scheduled. Time will follow the assigned school schedule.* | |
| 0301 | Tracy Dunheimer | Seats (Total: 30) |
| | Contact instructor or department for details. | |
| | *Field Experience is Wednesday and Thursday and all Fridays when TLPL478G is not scheduled. Time will follow the assigned school schedule.* | |

**TLPL489Y** **Internship in Education; Internship Experience**

*Internship or residency experiences in school settings with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.*

**Contact department for information to register for this course.**

**TLPL489Z** **Internship in Education; Elementary Education Residency**

(Perm req)

*Internship or residency experiences in school settings with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.*

| | | |
|---|---|---|
| 0101 | Tracy Dunheimer | Seats (Total: 1) |
| | Contact instructor or department for details. | |

**TLPL498** **Special Problems in Education**

(Perm req)

*Exploration of current problems in teaching, learning, policy and leadership. Available only to students who have definite plans for study of approved problems.*

**Contact department for information to register for this course.**

**TLPL498Z** **Special Problems in Education; Internship Experience**

*Exploration of current problems in teaching, learning, policy and leadership. Available only to students who have definite plans for study of approved problems.*

**Contact department for information to register for this course.**

**TLPL606** **Teaching and Learning Mathematics in Secondary Schools**

*Prerequisite: Enrollment in a University of Maryland program leading to teacher certification; and bachelor's degree in mathematics or related field; and 2 semesters of calculus. Credit only granted for: EDCI651 or TLPL606. Formerly: EDCI651.*

*Objectives, selection and organization of subject matter, appropriate methods, lesson plans, textbooks, technology and other instructional materials; assessment of student learning and other topics pertinent to secondary mathematics education. Internship of other placement in a secondary mathematics classroom is required.*

Prerequisite: Permission of department.

**Contact department for information to register for this course.**

**TLPL607** **Teaching and Learning Mathematics in the Elementary School**

*Prerequisite: MATH212, MATH213, or MATH214; or students who have taken courses with comparable content may contact the department. Credit only granted for: EDCI652 or TLPL607. Formerly: EDCI652.*

*Strategies and methodologies for the teaching of elementary school mathematics based on current research and theories about how children learn mathematics. Attention is given to professional recommendations and teaching practices that foster communication, reasoning, and reflection in the mathematics classroom. Internship or other placement in an elementary school is required.*

**Contact department for information to register for this course.**

**TLPL618** **Digital Learning Tools and Communities**

*Addresses the student learning outcomes outlined by the Interstate Teacher Assessment and Support Consortium(InTASC). When this course is successfully completed, students will be able to competently integrate technology into instruction to support student learning and develop research-based strategies for instructional and school improvement. Students are expected to demonstrate proficiency in each of the seven Maryland Teacher Technology Standards as well as the International Society for Technology Educator Standards.*

| | | |
|---|---|---|
| PXK1 | Theresa Robinson | Seats (Total: 20) |
| | **Meets October 22, 2024 - December 11, 2024** | |
| | M 5:00pm - 8:00pm<br>Class time/details on ELMs | Location: TBA<br>ONLINE |
| | *Must be in Curriculum and Instruction (M.Ed.), CITE to register. Golden ID students are not eligible for this section.* | |

**TLPL621** **Learning and Teaching in the Physical Sciences I**

*Restriction: Enrollment in an EDCI Outreach Program in science education; or must be in Curriculum and Instruction (Master's) program; or permission of instructor. Credit only granted for: EDCI604 or TLPL621. Formerly: EDCI604.*

*Engagement in laboratory and inquiry-based methods to develop coherent understandings about the physical world and explore issues in the physical sciences. Personal engagements with phenomena and reflection on the learning and instructional experiences.*

| | | |
|---|---|---|
| PVJ1 | Andrew Elby | Seats (Total: 20) |
| | **Meets August 26, 2024 - December 11, 2024** | |
| | Tu 5:00pm - 8:00pm<br>Class time/details on ELMs | BLD4 1119<br>ONLINE |
| | *Must be in Curriculum and Instruction (M.Ed.), STEM to register. Golden ID students are not eligible for this section.* | |

**TLPL625** **Teaching Science in Elementary Schools**

*Credit only granted for: EDCI671 or TLPL625. Formerly: EDCI671.*

*Identification of problems in teaching science. Methods for improving the effectiveness of science education.*

| | | |
|---|---|---|
| PXK2 | Daman Harris<br>**Meets August 26, 2024 - October 18, 2024**<br>W 5:00pm - 8:00pm<br>Class time/details on ELMs | Seats (Total: 20)<br><br>Location: TBA<br>ONLINE |

*Must be in Curriculum and Instruction (M.Ed.), CITE to register. Golden ID students are not eligible for this section.*

**TLPL626** **Learning to Teach and Learn Science**

*Prerequisite: TLPL420; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Restriction: Must be in the Maryland Master's Certification program; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI675 or TLPL626. Formerly: EDCI675.*

*Developing practices of instruction in science teaching in the context of understanding student science learning.*

**Contact department for information to register for this course.**

**TLPL633** **Integrated Art Methods**

*Prerequisite: EDCI680; or TLPL435. Restriction: Must be in a major within the EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI423, EDCI603, TLPL447 or TLPL633. Formerly: EDCI603.*

*Builds upon the pedagogical foundation of an initial art education methods course and provides future art teachers with the means for developing PreK-12 art lesson/unit plans for a balanced qualitative art program for today's diverse and inclusive schools/classrooms. Integratin g art with other subject areas.*

**Contact department for information to register for this course.**

**TLPL640** **Assessing, Diagnosing, and Teaching Writing**

*Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI673 or TLPL640. Formerly: EDCI673.*

*Examines current theory, research, best practice, curricula and materials for teaching written communication in middle and secondary schools in order to survey, review and select formal and informal assessments and diagnostic strategies useful for writing teachers. Focuses on validity and reliability issues. Includes instructional planning and development of instructional materials for implementing appropriate individual, small-group and large-group instruction. English Language Learner (TESOL and SIOP) and special needs (inclusion) pupil issues considered.*

**Contact department for information to register for this course.**

**TLPL645** **Content Area Reading**

*Prerequisite: EDCI362; or TLPL462; or students who have taken courses with comparable content may contact the department. Credit only granted for: EDCI661 or TLPL645. Formerly: EDCI661.*

*Research-based strategies for improving reading to learn in the content areas (K-12).*

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|---|---|---|
| 0101 | Ying Zhang<br>Tu 5:00pm - 7:45pm | Seats (Total: 20)<br>EDU 2212 |

**TLPL652** **Multicultural Materials and Instruction for P-12 Readers**

*Credit only granted for: TLPL652 or EDCI667. Formerly: EDCI667.*

*An exploration of the multicultural materials and instructional strategies that create responsive P-12 classrooms and curricula for diverse readers.*

| | | |
|---|---|---|
| 0101 | Reka Barton<br>Tu 5:00pm - 7:45pm<br>Class time/details on ELMs | Seats (Total: 20)<br>ASY 3217<br>ONLINE |

**TLPL656** **Teaching Culturally and Linguistically Diverse Exceptional Learners**

*Credit only granted for: EDCI632 or TLPL656. Formerly: EDCI632.*

*Explores cross-cultural and linguistic diversity as they relate to identification procedures for and education of English learners with exceptional needs beyond the second language acquisition process such as learning disabilities and gifted & talented.*

| | | |
|---|---|---|
| 0101 | Amanda Cataneo<br>Th 5:00pm - 8:00pm | Seats (Total: 15)<br>EDU 3233 |

**TLPL661** **Multiliteracies: Theory and Practice**

*Prerequisite: TLPL665. Credit only granted for: EDCI638, EDCI688J, or TLPL661. Formerly: EDCI638 and EDCI688J.*

*Explores the theoretical constructs and practical manifestations of multiliteracies in communities and schools by presenting an overview of the research on the constructs of New Literacy Studies, Critical Literacy, Digital Literacy, and Funds of Knowledge, as well as the practical implications of teaching reading and writing to culturally and linguistically diverse learners in content areas (i.e., language arts, math, science, social studies, etc.) in classrooms.*

| | | |
|---|---|---|
| 0101 | Shenika Hankerson<br>M 5:00pm - 7:45pm<br>Class time/details on ELMs | Seats (Total: 10)<br>EDU 2212<br>ONLINE |
| PCQ1 | Shenika Hankerson<br>M 5:00pm - 7:45pm<br>Class time/details on ELMs | Seats (Total: 10)<br>EDU 2212<br>ONLINE |

*Must be in the Dual Language Graduate Certificate programs. Registration for students outside of these programs is By Permission Only. Golden ID students are not eligible for this section.*

**TLPL664** **Foundations of Second Language Education: Legal, Social and Historical Trends and Issues**

*Credit only granted for: EDCI630 or TLPL664. Formerly: EDCI630.*

*Knowledge of history, research, current practice and public policy issues in the field of second languague education from kindergarten to post-secondary settings. Required for TESOL certification program.*

| | | |
|---|---|---|
| 0101 | Jeff MacSwan | Seats (Total: 20) |
| | Class time/details on ELMs | ONLINE |

**TLPL665** **Methods for Teaching Multilingual Learners**

*Credit only granted for: EDCI634 or TLPL665. Formerly: EDCI634.*

*Draws on current research to present methods of teaching English to speakers of other languages and challenges participants to analyze and apply successful classroom practices that address the needs of culturally and linguistically diverse learners (also known as English Language Learners, English Learners).*

| | | |
|---|---|---|
| 0101 | Jessica Crawford | Seats (Total: 20) |
| | M 5:00pm - 7:45pm | LEF 1201 |

**TLPL666** **English Grammar for Teachers of English to Speakers of Other Languages**

*Restriction: Permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI635 or TLPL666. Formerly: EDCI635.*

*English grammar and methods of teaching grammar for graduate, prospective and current teachers of English to speakers of other languages. Analysis of the major grammatical structures of American English. Discussion of the role of teaching grammar, and effective classroom methods and techniques for the English as a second/foreign language classroom.*

| | | |
|---|---|---|
| 0101 | Kellie Rolstad | Seats (Total: 25) |
| | Tu 5:00pm - 7:45pm | EDU 2121 |

**TLPL668** **Developing a Professional Portfolio**

*Students will examine issues of performance assessment and develop professional portfolios following the guidelines established by the National Board of Professional Teaching Standards. Drawing on the research data collected throughout their program and relying on inquiry, reflections, and analysis, they will synthesize and present the body of their teaching experience.*

| | | |
|---|---|---|
| PVJ1 | Amy Green | Seats (Total: 20) |
| | Tu 5:00pm - 8:00pm | BLD4 1119 |
| | Class time/details on ELMs | ONLINE |

**TLPL671** **Education Policy Analysis**

*Credit only granted for: EDPS620 or TLPL671.  Formerly: EDPS620.*

*Policy making in education from planning to evaluation with emphasis on the identification of policy problems and the resources available to analysts through multi-disciplinary approaches. An introductory experience with education policy analysis.*

| | | |
|---|---|---|
| 0101 | Meghan Comstock<br>W 1:00pm - 3:45pm | Seats (Total: 20)<br>EDU 3233 |

**TLPL674** **Studying Student Learning in Diverse Settings**

*Credit only granted for: EDCI611 or TLPL674.  Formerly: EDCI611.*

*This course deepens teacher understanding of student development and th cultural context for teaching through readings and focused field studies. Participants will also begin developing skills needed for investigations using methods of interpretive inquiry.*

**Contact department for information to register for this course.**

**TLPL678** **Professional Seminar in Education**

*Seminar on the issues and problems teacher candidates encounter in classrooms.  Exploration of the skills and strategies  that best address these challenges.*

| | | |
|---|---|---|
| 0101 | Antonio Perez Belda<br>W 3:30pm - 4:50pm | Seats (Total: 5)<br>ONLINE |
| IH68 | Antonio Perez Belda<br>W 3:30pm - 4:50pm | Seats (Total: 5)<br>ONLINE |
| PXK3 | Theresa Robinson<br>**Meets August 26, 2024 - December 11, 2024**<br>Th 5:00pm - 8:00pm<br>Class time/details on ELMs<br>*Must be in Curriculum and Instruction (M.Ed.), CITE to register. Golden ID students are not eligible for this section. Meets at Laurel College Center (Room 502)* | Seats (Total: 15)<br><br>Location: TBA<br>ONLINE |

**TLPL681** **History of Education in the United States**

*Credit only granted for: TLPL681 or EDPS611.  Formerly: EDPS611.*

*A study of the origins and development of education in the United States, emphasizing the variety of interpretive and methodological concerns that define the field.*

| | | |
|---|---|---|
| 0101 | Campbell Scribner<br>Tu 4:15pm - 7:00pm | Seats (Total: 20)<br>TWS 0221 |

**TLPL685** **Teaching Social Studies in Elementary Schools**

*Credit only granted for: EDCI622 or TLPL685. Formerly: EDCI622.*

*Examination of current literature and research in the social sciences as they relate to social studies curriculum and instruction.*

**Contact department for information to register for this course.**

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**TLPL686** **Curriculum, Teaching and Assessment in Social Studies**

*Prerequisite: TLPL470; or EDCI680. Credit only granted for: EDCI627 or TLPL686. Formerly: EDCI627.*

*Focuses on five key issues on social studies education: defining learning goals, building units with aligned goals, assessments, and instructional activities, designing inquiry-based lessons, assessing student learning, and modifying instruction based on assessment data.*

**Contact department for information to register for this course.**

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**TLPL688** **Special Topics in Education**

*Special treatment of current topics and issues in teaching, learning, policy and leadership.*

| | | |
|---|---|---|
| PVJ1 | Amy Green | Seats (Total: 20) |
| | **Meets August 26, 2024 - December 11, 2024** | |
| | Tu 5:00pm - 8:00pm<br>Class time/details on ELMs | BLD4 1119<br>ONLINE |
| | *Must be in Curriculum and Instruction (M.Ed.), STEM to register. Golden ID students are not eligible for this section.* | |

**TLPL688X** **Special Topics in Education; Teaching & Learning Computer Science & Computational Thinking for Elementary & Middle School**

*Special treatment of current topics and issues in teaching, learning, policy and leadership.*

| | | |
|---|---|---|
| PVJ1 | Jonathan Rivera | Seats (Total: 20) |
| | **Meets August 26, 2024 - December 11, 2024** | |
| | W 5:00pm - 8:00pm<br>Class time/details on ELMs | BLD4 1119<br>ONLINE |
| | *Must be in Curriculum and Instruction (M.Ed.), STEM to register. Golden ID students are not eligible for this section.* | |

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**TLPL689** **Internship in Education**

*Internship or residency experiences in school settings with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students admitted to approved teacher education programs.*

Student lab fee may apply. Contact program for details.

| | | |
|---|---|---|
| 0101 | Antonio Perez Belda<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0201 | Loren Jones<br>Contact instructor or department for details. | Seats (Total: 10) |
| PXK1 | Theresa Robinson<br>**Meets August 26, 2024 - December 10, 2024**<br>Tu 5:00pm - 8:00pm<br>Class time/details on ELMs<br>*Must be in Curriculum and Instruction (M.Ed.), CITE to register. Golden ID students are not eligible for this section.* | Seats (Total: 20)<br><br>Location: TBA<br>ONLINE |

**TLPL692** **Statistical Literacy for Education Research**

*Credit only granted for: TLPL788C, EDPS788I or TLPL692. Formerly: TLPL788C.*

*Students will learn about descriptive (measures of central tendencies and dispersion) and inferential (bivariate and OLS regression) statistics with education applications. Throughout the course, students will learn critical basic statistical concepts, and statistics' language and how to interpret results and communicate research findings, both orally and in written form. Students will also explore various statistical techniques and read research articles to better understand statistical procedures and approaches.*

| | | |
|---|---|---|
| 0101 | Claudia Galindo<br>M 4:15pm - 7:00pm | Seats (Total: 20)<br>EDU 3233 |

**TLPL695** **Methods I: K-12 World Language Methods and Technology**

*Credit only granted for: TLPL445 or TLPL695. Additional information: Lab and field experiences required.*

*The first of two sequential courses required for achieving competence in teaching a world language. Explores Dual Language/World Language Methods and Second Language/Bilingual development. Implications for teaching and initial lesson design are explored through on-campus seminars as well as guided field experiences. Students should reserve a regular half-day per week for the field experience in local schools.*

| | | |
|---|---|---|
| 0101 | Antonio Perez Belda<br>Th 5:00pm - 7:45pm | Seats (Total: 14)<br>TWS 1106 |

**TLPL696** **Advanced K-12 World Language Methods and Technology**

(Perm req)

*Prerequisite: TLPL695; and TLPL695. Corequisite: Must be concurrently enrolled in TLPL479J. Credit only granted for: EDCI433, EDCI688A, TLPL450 or TLPL696. Formerly: EDCI688A.*

*Teaches advanced best practices for effective World Language instruction. Topics include: lesson planning, using authentic assessment and materials, applying national and state standards infusing culture, interdisciplinary content and technology. Classroom management procedures and strategies to create a welcoming and engaging classroom environment. Motivating students and differentiated instruction.*

| | | |
|---|---|---|
| 0101 | Antonio Perez Belda<br>M 5:00pm - 7:45pm | Seats (Total: 5)<br>EDU 2101 |

**TLPL698** **Conducting Research on Teaching**

(Perm req)

*Analysis and improvement of educational practice. Research methods used in the study of classroom teaching. Design and conduct of an action research project. Open only to students admitted to approved teacher education programs.*

| | | |
|---|---|---|
| 7041 | Daniel Levin<br>Contact instructor or department for details. | Seats (Total: 5) |
| PXK2 | Theresa Robinson<br>**Meets August 26, 2024 - December 11, 2024**<br>Th 5:00pm - 8:00pm<br>Class time/details on ELMs<br>*Must be in Curriculum and Instruction (M.Ed.), CITE to register. Golden ID students are not eligible for this section.* | Seats (Total: 20)<br><br>Location: TBA<br>ONLINE |

**TLPL699** **Master's Seminar**

*Directed study for master's degree students writing seminar papers.*

**Contact department for information to register for this course.**

**TLPL704** **Research Methodologies and Educational Practice**

*Restriction: Must be in Teaching and Learning, Policy and Leadership Master of Arts program; or permission of instructor. Credit only granted for: TLPL788W or TLPL704. Formerly: TLPL788W.*

*Introduction to methodological approaches commonly used in educational research with a focus on addressing issues in teaching and learning, schools and communities, and educational policy.*

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|---|---|---|
| 0101 | Melanie Hardy-Skeberdis<br>Th 4:15pm - 7:00pm | Seats (Total: 20)<br>JMZ 2122 |

**TLPL708A** **Special Topics in Technology, Learning & Leadership; TLL Graduate Research Seminar**

*Read, plan, conduct, and report on research projects and research topics related to Technology, Learning & Leadership. Projects may be faculty/student projects, or group or individual student projects (may or may not be related to a dissertation). Emphasis on framing researchable questions and designing/analyzing research studies. Faculty and peer feedback and interaction are crucial expectations.*

| | | |
|---|---|---|
| 0101 | Sarah McGrew<br>W 1:00pm - 1:50pm<br>Class time/details on ELMs | Seats (Total: 10)<br>Location: TBA<br>ONLINE |

**TLPL713** **Mathematics and Science Education Policy, Professional Development and Teacher Preparation**

*Prerequisite: Admitted to Doctoral Program in Mathematics Education or Science Education; or permission of EDUC-Teaching and Learning, Policy and Leadership department. Credit only granted for: EDCI754 or TLPL713. Formerly: EDCI754.*

*Preservice teacher education, professional development, and policy as agents of reform in mathematics education and in science education.*

| | | |
|---|---|---|
| 0101 | Andrew Brantlinger<br>M 4:15pm - 7:15pm | Seats (Total: 20)<br>EDU 2121 |

**TLPL728** **Research Seminar in Mathematics and Science Education**

*Read, plan, conduct, and report on research projects and research topics in mathematics and science education. Projects may be faculty/student projects, or group or individual student projects (may or may not be related to a dissertation). Emphasis on framing researchable questions and designing/analyzing research studies. Faculty and peer feedback and interaction are crucial expectations.*

| | | |
|---|---|---|
| 0101 | Andrew Brantlinger<br>F 10:00am - 1:30pm<br>Class time/details on ELMs | Seats (Total: 20)<br>EDU 2121<br>ONLINE |

**TLPL743** **Teaching English Language Learners: Current and Future Research Directions**

*Credit only granted for: EDCI734 or TLPL743. Formerly: EDCI734.*

*Examines the research base on teacher education through an equity-oriented lens, asking the larger question: How can we prepare teachers of multilingual learners to engage in humanizing and asset-oriented pedagogies? It also explores opportunities for future research in teacher education.*

| | | |
|---|---|---|
| PXH2 | Margaret Marcus<br>**Meets August 26, 2024 - December 11, 2024**<br>Tu 5:00pm - 7:45pm<br>Class time/details on ELMs | Seats (Total: 20)<br>Location: TBA<br>ONLINE |

*Must be in School System Leadership (Ed.D.), TESOL to register. Golden ID students are not eligible for this section.*

**TLPL764** **Data Management and Coding in Stata**

*Recommended: Some prior experience with data management and statistical programming software (namely Stata) and with applied statistics. Credit only granted for: TLPL788D or TLPL764. Formerly: TLPL788D.*

*School districts and states are required to collect large swaths of data on students, teachers, and schools. These large administrative datasets have become the backbone of education policy research, and so students interested in engaging in this space increasingly need the skills to work with "big data." This course will help students learn a coding language from the program Stata in order to clean and analyze large datasets. Topics covered include: data cleaning, recoding and checking; merging data from multiple sources; reshaping data; documenting processes; writing programs and macros to reduce errors; and presenting descriptive data through tables and graphs.*

Class will be held in the COE Computer Lab in Benjamin Building.

| | | |
|---|---|---|
| 0101 | Danett Song<br>M 12:00pm - 12:50pm | Seats (Total: 20)<br>Location: TBA |

**TLPL765** **Quantitative Applicaltions for Education Policy Analysis**

*Prerequisite: EDMS645; or students who have taken courses with comparable content may contact the department. Recommended: EDMS646; or EDMS651. Or EDMS646; and EDMS651. Credit only granted for: EDPS703 or TLPL765. Formerly: EDPS703.*

*Students use quantitative applications and secondary datasets to investigate social problems and education policies. Emphasis on the use of quasi-experimental designs and regression techniques to frame education issues, analyze, and recommend policies.*

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|---|---|---|
| 0101 | Sung-Woo Cho<br>M 1:00pm - 3:45pm | Seats (Total: 20)<br>EDU 2101 |

**TLPL774** **Urban Education**

*Credit only granted for: EDCI776 or TLPL774. Formerly: EDCI776.*

*This seminar provides students with a broad overview of urban education as a field of inquiry by examining the social context of urban schools, how transformative pedagogy is practiced and conceptualized as well as school reform.*

| | | |
|---|---|---|
| 0101 | Tara Brown<br>W 4:15pm - 7:00pm | Seats (Total: 20)<br>EDU 2119 |

**TLPL788E** **Special Topics in Education; Professional Seminar in Urban Education**

*Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.*

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|---|---|---|
| 0101 | Tara Brown<br>Tu 4:15pm - 7:00pm | Seats (Total: 20)<br>TWS 0223 |

**TLPL788K** **Special Topics in Education; Teacher Cognition**

*Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.*

| | | |
|---|---|---|
| 0101 | Janet Walkoe<br>W 9:00am - 12:00pm | Seats (Total: 15)<br>ARC 1125 |

**TLPL788M** **Special Topics in Education; Research Development Workshop**

*Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.*

| | | |
|---|---|---|
| 0101 | Claudia Galindo<br>M 12:00pm - 12:50pm | Seats (Total: 15)<br>EDU 2101 |

**TLPL788Q** **Special Topics in Education; Seminar in Teacher Education and Professional Development**

(Perm req)

*Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.*

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|---|---|---|
| 0101 | Cesar Guitunga<br>F 12:00pm - 2:00pm | Seats (Total: 20)<br>ONLINE |

**TLPL788U** **Special Topics in Education; Race, Whiteness, and Identity**

*Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.*

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|---|---|---|
| 0101 | Rossina Liu<br>Tu 4:15pm - 7:00pm | Seats (Total: 20)<br>EDU 1315 |

**TLPL788V** **Special Topics in Education; Sociolinguistics**

*Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.*

| | | |
|---|---|---|
| 0101 | Laura Mahalingappa<br>W 5:00pm - 7:45pm | Seats (Total: 20)<br>EDU 2102 |

**TLPL788Z** **Special Topics in Education; Teaching and Learning in/with Communities**

*Special and intensive treatment of current topics and issues in teaching, learning, policy and leadership.*

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|---|---|---|
| 0101 | Keisha Allen | Seats (Total: 20) |
| | W 4:15pm - 7:00pm | JMZ 3122 |

**TLPL789** **Internship in Education**

*Approved professional experiences with appropriate supervision. Open only to students admitted to approved master's and doctoral specializations.*

**Contact department for information to register for this course.**

**TLPL791** **Qualitative Research I: Design and Fieldwork**

(Perm req)

*Prerequisite: EDCI790. Credit only granted for: EDCI791 or TLPL791. Formerly: EDCI791.*

*Examines the theoretical and epistemological moorings of different types of qualitative research. Students apply selected field research methods to problems of professional practice in schools and communities while considering central issues and dilemmas that arise while engaging in fieldwork.*

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|---|---|---|
| 0101 | Jennifer Turner | Seats (Total: 20) |
| | W 4:35pm - 7:20pm | EDU 1315 |

**TLPL794** **Foundations of Educational Research I**

*Restriction: Must be in Teaching and Learning, Policy and Leadership (Doctoral) program. Credit only granted for: EDPS788P or TLPL794. Formerly: EDPS788P.*

*An introduction to the "contested terrain" of education research. It examines major conceptual, methodological and political issues embedded in efforts to carry out education research and focuses on the development of the analytic dispositions and communication skills required to carry out research that meets the variously defined quality, utility and significance standards of scholarship in the field.*

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|---|---|---|
| 0101 | Nihat Polat | Seats (Total: 24) |
| | Th 4:15pm - 7:00pm | EDU 1121 |

**TLPL795** **Foundations of Educational Research II**

*Restriction: Must be in Teaching and Learning, Policy and Leadership (Doctoral) program. Credit only granted for: EDPS788T or TLPL795. Formerly: EDPS788T.*

*Students engage in the process of conceptualizing and completing a rigorous review of a section of literature in their area of specialization.*

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|---|---|---|
| 0101 | Andrew Elby | Seats (Total: 25) |
| | Th 4:15pm - 7:00pm | EDU 1315 |

**TLPL798** **Special Problems in Education**

(Perm req)

*Exploration of current problems in teaching, learning, policy and leadership. Available only to master's or doctoral candidates under the direction of their advisors.*

**Contact department for information to register for this course.**

**TLPL799** **Master's Thesis Research**

(Perm req)

**Contact department for information to register for this course.**

**TLPL888** **Apprenticeship in Education**

(Perm req)

*Apprentice practice under professional supervision in an area of competence compatible with the student's professional goals. Credit not to be granted for experience accrued prior to registration. Open only to degree- and certificate-seeking graduate students.*

**Contact department for information to register for this course.**

**TLPL889** **Internship in Education**

(Perm req)

*Internship experiences at a professional level of competence in a particular role with appropriate supervision. Credit not to be granted for experience accrued prior to registration. Open only to students advanced to candidacy for doctoral degree.*

**Contact department for information to register for this course.**

**TLPL898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**TLPL899** **Doctoral Dissertation Research**

(Perm req)

*Registration required to the extent of 6-9 hours for an Ed.D. Project and 12-18 hours for a Ph.D. Dissertation.*

**Contact department for information to register for this course.**

# TLTC Teaching and Learning Transformation Center Fall 2024

**TLTC310** **Leadership in Collaborative Learning Groups**

(Perm req)

*Restriction: Restricted to students selected to participate in the Guided Study Sessions through the Teaching and Learning Transformation Center. Credit only granted for: HESI318N or TLTC310. Formerly: HESI318N.*

*Experiential learning opportunity that applies principles of leadership, peer mentoring, and learning theory to the planning and facilitation of peer-led collaborative learning sessions. Incorporates research, reasoning, evidence, and feedback to develop a reflective practice.*

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| 0101 | Danielle Pafe<br>W 5:00pm - 6:15pm<br>Contact instructor or department for details. | Seats (Total: 20)<br>SPH 0302 |

**TLTC333** **Fundamentals of Academic Peer Mentoring**

*How should scientific research influence the way we study and advance the academic performance of others? Learn about the scholarship of teaching and learning and develop the applied skills to support active learning as an academic peer mentor. Whether or not you ultimately pursue a career as an educator, the more effectively you can coach and support the performance of other people, and the more successful you will be. Guided online and face-to-face participation will culminate in a portfolio of your teaching activities and professional development.*

Students must be working as an AMP in order to register for TLTC333. If you have any questions about this requirement, please email tltc-amp@umd.edu.

*Click here for more course information.*

| | | |
|---|---|---|
| 0101 | Mona Thompson<br>M 10:00am - 10:50am<br>Class time/details on ELMs | Seats (Total: 57)<br>Location: TBA<br>ONLINE |
| | *This section will meet in person in ESJ 0201 on the following dates: Sept. 9, Oct. 7, and Nov. 11.* | |
| 0102 | Mona Thompson<br>M 11:00am - 11:50am<br>Class time/details on ELMs | Seats (Total: 57)<br>Location: TBA<br>ONLINE |
| | *This section will meet in person in ESJ 0201 on the following dates: Sept. 9, Oct. 7, and Nov. 11.* | |
| 0105 | Mona Thompson<br>Tu 12:30pm - 1:20pm<br>Class time/details on ELMs | Seats (Total: 57)<br>Location: TBA<br>ONLINE |
| | *This section will meet in person in ESJ 0201 on the following dates: Sept. 10, Oct. 8, and Nov. 12.* | |

**TLTC399** **Independent Study in Academic Peer Mentoring**

(Perm req)

*Earn academic credit for the time spent supporting a course in TLTC's Academic Peer Mentoring Program (AMP).*

Prerequisite: Must have completed or be concurrently enrolled in TLTC333. Restriction: Permission of TLTC required - enrollment restriction. Repeatable to 6 credits. Earn academic credit for the time spent supporting a course in TLTC's Academic Peer Mentoring Program (AMP).

**Contact department for information to register for this course.**

**TLTC499A** **Independent Study in Teaching and Learning**

(Perm req)

*Earn academic credit for the time spent supporting TLTC's educational development programs and/or engaging in the scholarship of teaching and learning.*

Restriction: Permission of TLTC required. Contact the department for information to register for this course.

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|---|---|---|
| 0101 | Mona Thompson<br>Contact instructor or department for details. | Seats (Total: 10) |
| 0102 | Danielle Pafe<br>Contact instructor or department for details. | Seats (Total: 10) |

# UMEI Maryland English Institute Fall 2024

**UMEI005** **Advanced English as a Foreign Language**

*Semi-intensive course for the nearly proficient non-native speaker of English needing additional language instruction prior to undertaking full-time academic study. Speaking and listening skills; improvement of reading speed and comprehension; and development of writing skills. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.*

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|---|---|---|
| 0101 | Heather Mehrtens<br>MTuThF 9:00am - 10:50am | Seats (Total: 15)<br>SQH 2113 |
| 0201 | Heather Mehrtens<br>MTuThF 1:00pm - 2:50pm | Seats (Total: 15)<br>SQH 1125 |
| 0301 | Marilena Draganescu<br>MTuThF 1:00pm - 2:50pm<br>*This section is restricted to Graduate Students.* | Seats (Total: 15)<br>LEF 1171 |
| 0501 | Marilena Draganescu<br>MTuThF 9:00am - 10:50am<br>*This section is restricted to Graduate Students.* | Seats (Total: 15)<br>SQH 1111 |

**UMEI006** **English Pronunciation**

(Perm req)

*Restriction: Must have graduate standing.*

*Individualized class for the non-native speaker of English. Diagnosis of individual pronunciation problems. Practice in the correct pronunciation of English sounds and improvement of ability to speak English with proper stress and intonation patterns. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.*

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|---|---|---|
| 0101 | Charles Duquette<br>Class time/details on ELMs | Seats (Total: 16)<br>ONLINE |
| 0201 | Raymond Smith<br>TuTh 9:00am - 10:30am | Seats (Total: 16)<br>ASY 3207 |
| 0301 | Charles Duquette<br>Class time/details on ELMs | Seats (Total: 16)<br>ONLINE |

**UMEI007** **Advanced Writing for International Students**

*Restriction: Must have graduate standing.*

*A writing skills course for the non-native speaker of English with a good command of spoken English. This course does not carry credit towards any degree at the University and does not count in the retention plan.*

Restriction: Must have graduate standing.

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|---|---|---|
| 0101 | Charles Duquette<br>Class time/details on ELMs | Seats (Total: 15)<br>ONLINE |
| 0201 | Annelies Galletta<br>MW 9:00am - 10:50am | Seats (Total: 15)<br>EDU 3236 |

**UMEI012** **Integrated English: Intermediate**

*Prerequisite: Placement exam; and permission of EDUC-Dean-Maryland English Institute department.*

*English as a Second Language course for students at the intermediate level.*

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|---|---|---|
| 0101 | Louise Godley<br>MTuWTh 9:00am - 12:30pm | Seats (Total: 10)<br>SQH 1123 |

**UMEI013** **Integrated English: Advanced**

*Prerequisite: Placement exam; and permission of EDUC-Dean-Maryland English Institute department.*

*English as a Second Language for students at the advanced level.*

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|---|---|---|
| 0101 | Louise Godley<br>MTuWTh 9:00am - 12:30pm | Seats (Total: 16)<br>SQH 1123 |

**UMEI028A** **Special Topics in English as a Second Language**

*Focuses on particular English language topics for ESL student as indicated by title. Course intended to be taken concurrently with UMEI011, UMEI012, or UMEI013; but may be taken independently with special permission.*

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|---|---|---|
| 0101 | Annelies Galletta<br>W 1:30pm - 3:30pm<br>F 10:00am - 12:00pm | Seats (Total: 16)<br>SQH 2113<br>SQH 3116 |

# UNIV University Courses Fall 2024

**UNIV099** **Internship Seminar**

(Perm req)

*Complements students' supervised work experiences. Open to all majors; all class levels. Involves exploring career options, developing professional work skills, examining the relationship between internship and academic coursework. Course may be repeated.*

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|---|---|---|
| 0101 | Jeffrey Quinteros Ceron, Erica Ely<br>Contact instructor or department for details. | Seats (Total: 90) |

**UNIV100** **The Student in the University**

*Credit only granted for: EDCP108O or UNIV100. Formerly: EDCP108O.*

*Introduces students to University life. In a small classroom setting, students will explore how to successfully bridge the gap between high school and college. Study skills, career decision-making, and student development processes will be explored.*

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|---|---|---|
| 0101 | Ulysses Crawford, Maleah Williams<br>**Meets September 4, 2024 - November 18, 2024**<br>Th 11:00am - 12:20pm<br>*Restricted to first semester students enrolled in UTerp program.* | Seats (Total: 20)<br><br>SYM 0209 |
| 0102 | Gregory Shaffer<br>**Meets September 4, 2024 - November 24, 2024**<br>Tu 3:30pm - 5:30pm<br>*Open to first-semester freshmen who are interested in pre-law.* | Seats (Total: 20)<br><br>JMZ 0205 |

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|---|---|---|
| 0201 | Kenneth Kokason<br>W 11:00am - 12:20pm<br>*Restricted to First Semester BSOS Majors.* | Seats (Total: 27)<br>KEY 0125 |
| 0202 | Danielle Worsham<br>W 1:00pm - 2:20pm<br>*Restricted to First Semester BSOS Majors. Online Classes will be held on 9/25; 10/23; and 11/20.* | Seats (Total: 27)<br>SYM 0209 |
| 0204 | Genevieve Menthen, Emily Sessa<br>Th 1:00pm - 2:20pm<br>*Restricted to First Semester BSOS Majors.* | Seats (Total: 27)<br>LEF 1220 |
| 0205 | Bailey Kier<br>W 3:00pm - 4:20pm<br>*Restricted to First Semester BSOS Majors.* | Seats (Total: 27)<br>ONLINE |
| 0207 | Rosalyn Anderson-Howell<br>Tu 3:00pm - 4:15pm<br>*Restricted to First Semester BSOS Majors.* | Seats (Total: 27)<br>PLS 1111 |
| 0208 | Kimberly Bethke<br>M 3:30pm - 4:50pm<br>*Restricted to First Semester BSOS Majors.* | Seats (Total: 27)<br>JMZ 3205 |
| 0210 | TC Lloyd<br>Tu 3:00pm - 4:20pm<br>*Restricted to First Semester BSOS Majors.* | Seats (Total: 27)<br>BPS 1234 |
| 0212 | Steven Meadows<br>M 3:00pm - 4:30pm<br>*Restricted to First Semester BSOS Majors.* | Seats (Total: 27)<br>JMZ 0103 |
| 0214 | Muhammad Tariq<br>M 1:30pm - 2:50pm<br>*Restricted to First Semester BSOS Majors.* | Seats (Total: 27)<br>Location: TBA |

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|---|---|---|
| 0305 | Christopher Lester<br>W 6:00pm - 7:50pm<br>*Restricted to OMSE - College Success Scholars.* | Seats (Total: 20)<br>ESJ 1215 |
| 0306 | Christopher Lester<br>W 6:00pm - 7:50pm<br>*Restricted to OMSE - College Success Scholars.* | Seats (Total: 20)<br>ESJ 1215 |
| 0501 | Andrea Torres Negron<br>W 2:00pm - 3:50pm<br>*Restricted to students in the College of Education.* | Seats (Total: 20)<br>ASY 3217 |
| 0505 | Kayla Kellner, Jessica Chew<br>M 11:00am - 12:50pm<br>*This section is for student in the College of Education only.* | Seats (Total: 20)<br>EDU 1315 |
| 0604 | Shannon Bate<br>**Meets August 26, 2024 - November 13, 2024**<br>Tu 11:00am - 12:30pm<br>*Restricted to engineering incoming freshmen.* | Seats (Total: 20)<br>EGR 2116 |
| 0802 | Thomas Steen<br>**Meets September 3, 2024 - November 15, 2024**<br>Th 2:00pm - 3:50pm<br>*Restricted to First Semester Letters and Sciences students.* | Seats (Total: 20)<br>BPS 1232 |
| 0804 | Amanda Dennis Wheeler<br>**Meets September 3, 2024 - November 15, 2024**<br>Th 3:30pm - 5:20pm<br>*For first semester Letters and Sciences students who are undecided or choosing a major and need additional support with major exploration.* | Seats (Total: 20)<br>JMZ 1117 |
| 0806 | Caroline Marr<br>**Meets September 3, 2024 - November 15, 2024**<br>W 3:30pm - 5:20pm<br>*Restricted to First Semester Letters and Sciences students.* | Seats (Total: 20)<br>JMZ 3205 |

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| 0807 | Lambert Aryee<br>**Meets September 3, 2024 - November 15, 2024**<br>Tu 11:00am - 12:50pm<br>*For first semester Letters and Sciences students who are interested in STEM (science, technology, mathematics, engineering) majors or careers. Part of the STEM Exploration Series.* | Seats (Total: 20)<br>PLS 1162 |
| 0808 | Isaiah Myers<br>**Meets September 3, 2024 - November 15, 2024**<br>Tu 2:00pm - 3:50pm<br>*For first semester Letters and Sciences students who are interested in STEM (science, technology, mathematics, engineering) majors or careers. Part of the STEM Exploration Series.* | Seats (Total: 20)<br>EDU 3315 |
| 0820 | Tara Feikes<br>**Meets September 3, 2024 - November 15, 2024**<br>Th 12:30pm - 2:20pm<br>*For first semester Letters and Sciences students who are interested in STEM (science, technology, mathematics, engineering) majors or careers. Part of the STEM Exploration Series.* | Seats (Total: 20)<br>JMZ 0125 |
| 0826 | Alexander Willie<br>**Meets September 3, 2024 - November 15, 2024**<br>M 3:30pm - 5:20pm<br>*Restricted to First Semester Letters and Sciences students.* | Seats (Total: 20)<br>TLF 0103 |
| 0841 | Kelly Marbury<br>**Meets September 3, 2024 - November 15, 2024**<br>Tu 3:30pm - 5:20pm<br>*Restricted to For first semester Letters and Sciences students interested in business. Part of the Business Exploration Series.* | Seats (Total: 20)<br>KEY 0102 |

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| 0852 | Alexander Willie<br>**Meets September 3, 2024 - November 15, 2024**<br>W 3:00pm - 4:50pm | Seats (Total: 20)<br>JMZ 1120 |
| | *For first semester Letters and Sciences students who are interested in STEM (science, technology, mathematics, engrineering) majors or careers. Part of the STEM Exploration Series.* | |
| 0854 | Isaiah Willett<br>**Meets September 3, 2024 - November 15, 2024**<br>M 2:00pm - 3:50pm | Seats (Total: 20)<br>ATL 1434 |
| | *For first semester Letters and Sciences students who are interested in STEM (Science, Technology, Mathematics, Engineering) majors or careers. Part of the STEM Exploration Series.* | |
| 1101 | Maoqing Wang, Maiya Smith<br>Tu 2:00pm - 3:15pm | Seats (Total: 18)<br>ARC 1123 |
| | *Restricted to ARCH majors only; cannot be dropped without permission from college.* | |
| 1103 | Lena Redisch<br>Tu 12:00pm - 1:15pm | Seats (Total: 18)<br>VMH 2211 |
| | *Restricted to ARCH majors only; cannot be dropped without permission from college.* | |
| 1201 | Tracy Kennedy<br>M 1:00pm - 2:15pm | Seats (Total: 17)<br>SPH 0227 |
| | *Restricted to SPHL majors only; cannot be dropped without permission from college.* | |
| 1202 | Lawrence Hoffman<br>M 3:00pm - 4:15pm | Seats (Total: 17)<br>SPH 0227 |
| | *Restricted to SPHL majors only; cannot be dropped without permission from college.* | |
| 1203 | Kayla Hoffman<br>Tu 9:30am - 10:45am | Seats (Total: 17)<br>SPH 0225 |
| | *Restricted to Public Health Science major (12140) only. Cannot be dropped without permission from the college.* | |
| 1204 | Elaine Rudder<br>Tu 2:00pm - 3:15pm | Seats (Total: 17)<br>SPH 0225 |
| | *Restricted to SPHL majors only; cannot be dropped without permission from college.* | |

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|---|---|---|
| 1205 | Lindsey Winter<br>Tu 11:00am - 12:15pm | Seats (Total: 17)<br>SPH 0227 |
| | *Restricted to Kinesiology majors (08351) only. Cannot be dropped withou permission from the college.* | |
| 1206 | April Khaing<br>W 1:00pm - 2:15pm | Seats (Total: 17)<br>SPH 0227 |
| | *Restricted to SPHL majors only; cannot be dropped without permission from college.* | |
| 1207 | Anna Lacy<br>Th 9:30am - 10:45am | Seats (Total: 17)<br>SPH 0227 |
| | *Restricted to SPHL majors only; cannot be dropped without permission from college.* | |
| 1208 | Kendyl Oliver<br>Th 2:00pm - 3:15pm | Seats (Total: 17)<br>SPH 0225 |
| | *Restricted to SPHL majors only; cannot be dropped without permission from college.* | |
| 1209 | Renee Stokes<br>Tu 9:30am - 10:45am | Seats (Total: 17)<br>SPH 0227 |
| | *Restricted to SPHL majors only; cannot be dropped without permission from college.* | |
| 1210 | Steven Anderson<br>W 3:00pm - 4:15pm | Seats (Total: 17)<br>SPH 0227 |
| | *Restricted to SPHL majors only; cannot be dropped without permission from college.* | |
| 1211 | Caitlin Minch<br>Th 11:00am - 12:15pm | Seats (Total: 17)<br>SPH 0225 |
| | *Restricted to SPHL majors only; cannot be dropped without permission from college.* | |
| 1212 | Polly Sebastian Schurer<br>Th 11:00am - 12:15pm | Seats (Total: 17)<br>SPH 0227 |
| | *Restricted to Kinesiology majors only; cannot be dropped without permission from college.* | |
| 1503 | Sarah Balcom<br>M 2:00pm - 3:50pm | Seats (Total: 20)<br>SYM 0118 |
| | *Restricted to College of Agriculture and Natural Resources, First Year or Transfer Students.* | |

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|---|---|---|
| 1504 | Heather Buchanan<br>Th 2:00pm - 3:50pm<br>*Restricted to College of Agriculture and Natural Resources, First Year or Transfer Students.* | Seats (Total: 20)<br>SYM 0118 |
| FC01 | Jeany Cadet<br>M 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 0120 |
| FC02 | Nicoletta Kern<br>M 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>SYM 0209 |
| FC03 | Vanessa Georgiadis<br>F 10:00am - 11:15am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>KEY 0126 |
| FC04 | Joel Solorzano<br>F 1:00pm - 2:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>TLF 0103 |
| FC05 | Sangida Akter<br>W 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 0120 |
| FC06 | Jess Feltner<br>W 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 1124 |
| FC07 | Denise McHugh<br>Th 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 0205 |
| FC08 | Marissa Sariol-Clough<br>M 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 0205 |

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| FC09 | Vanessa Georgiadis<br>F 11:30am - 12:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>KEY 0126 |
| FC10 | Kenneth Kokason<br>F 11:30am - 12:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>TYD 1114 |
| FC11 | Madeline Georgevich<br>F 1:00pm - 2:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 0205 |
| FC12 | Jeany Cadet<br>M 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>SKN 1112 |
| FC13 | Phylicia Nance<br>M 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 0120 |
| FC14 | Gabe Pickett<br>Th 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 1124 |
| FC15 | Sharon Vanwright<br>F 11:30am - 12:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 2206 |
| FC16 | Mariah Bauer<br>F 10:00am - 11:15am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>KEY 0116 |
| FC17 | Austin McDonald<br>Tu 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 17)<br>LEF 1171 |
| FC18 | Sangida Akter<br>Tu 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 1124 |

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| FC19 | Antoinette Dorzon<br>F 1:00pm - 2:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>TLF 0110 |
| FC20 | Howard Ly<br>Tu 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>MTH 0405 |
| FC21 | Eric Johnson<br>Th 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 0125 |
| FC22 | Gregory Shaffer<br>Th 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 0122 |
| FC23 | Tracy Kennedy<br>M 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>TLF 0110 |
| FC24 | Olga Rozman<br>M 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 0125 |
| FC25 | Neil Dhingra<br>F 11:30am - 12:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 1122 |
| FC26 | LaToya Walters<br>M 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 1122 |
| FC27 | Savannah Holt<br>Th 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 0205 |
| FC28 | Rosalyn Anderson-Howell<br>F 11:30am - 12:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>KEY 0116 |

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| FC29 | Jonathan Molnar<br>Tu 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>PLS 1119 |
| FC30 | Rachelle Wakefield<br>Tu 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>MTH 0405 |
| FC31 | Chamika Ellis<br>F 11:30am - 12:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>KEY 0102 |
| FC32 | Christopher Villalobos<br>Th 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>WDS 0104 |
| FC33 | Joel Solorzano<br>Tu 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>PHY 0405 |
| FC34 | Heather Gray<br>Tu 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>PHY 1402 |
| FC35 | Ashley Sankowski<br>F 11:30am - 12:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 0122 |
| FC36 | Lauren Neimeyer<br>M 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>TYD 1108 |
| FC37 | Thomas Steen<br>M 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 0118 |
| FC38 | Juan Henry<br>M 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 1122 |

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|---|---|---|
| FC39 | Daniel Hairfield<br>F 10:00am - 11:15am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 17)<br>KEY 0102 |
| FC40 | Andrew Muir<br>W 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>TLF 1103 |
| FC41 | Lynn Truong<br>Tu 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 3203 |
| FC42 | Julie Randolph<br>Tu 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 0120 |
| FC43 | Foster McDaniel<br>F 1:00pm - 2:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 0122 |
| FC44 | Andrea Torres Negron<br>W 4:30pm - 5:45pm<br>*Restricted to students in Freshman Connection. Recommended for students majoring in the College of Education.* | Seats (Total: 18)<br>HBK 1112 |
| FC46 | Jahaira Dixon<br>W 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>KEY 0102 |
| FC47 | TC Lloyd<br>Tu 4:30pm - 5:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 2206 |
| FC48 | Gennifer Godley<br>Tu 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>MTH 0402 |

| | | |
|---|---|---|
| FC50 | Caroline Marr<br>W 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 0205 |
| FC51 | Teniqua Coates-Singh<br>Tu 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>TLF 0103 |
| FC53 | Sahiba Bansal<br>M 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>LEF 0135 |
| FC56 | Alejandra Galarce Diaz<br>W 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 0103 |
| FC57 | Caroline Marr<br>W 7:30pm - 8:45pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 0205 |
| FC59 | Steven Young<br>M 3:00pm - 4:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>SYM 0209 |
| FC60 | Diana Bridgett<br>F 10:00am - 11:15am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>ATL 2352 |
| FC61 | Ali Kuczka<br>F 10:00am - 11:15am<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>JMZ 2206 |
| FC62 | Diana Bridgett<br>F 1:00pm - 2:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 18)<br>SYM 0209 |

**UNIV100V** **The Student in the University**

*Credit only granted for: EDCP108O or UNIV100. Formerly: EDCP108O.*

*Introduces students to University life. In a small classroom setting, students will explore how to successfully bridge the gap between high school and college. Study skills, career decision-making, and student development processes will be explored.*

| | | | |
|---|---|---|---|
| 0101 | Tasha Vanterpool<br>M 3:30pm - 5:30pm<br>*This section is reserved for VETERANS ONLY. DD214 required for verification.* | Seats (Total: 25)<br>Location: TBA | |

**UNIV106** **The Transfer Student in the University**

*Restriction: Must be a first-semester transfer student. Credit only granted for: UNIV106 or EDCP108G.*

*This course is designed to assist students in making a successful transition to the University of Maryland (UMD) and to serve as an extended orientation to campus living and learning.*

| | | | |
|---|---|---|---|
| 0101 | Melissa Hyre<br>Tu 11:00am - 12:15pm<br>*Restricted to first-semester transfer students in Letters and Sciences.* | Seats (Total: 20)<br>TYD 0111 | |
| 0104 | Evangeline Shannon, Kendyl Oliver<br>Tu 11:00am - 12:15pm<br>*Restricted to first-semester transfer students in the School of Public Health.* | Seats (Total: 20)<br>SPH 0225 | |
| 0201 | Joyleen Sapinoso<br>Th 2:00pm - 3:15pm<br>*Restricted to first-semester transfer students in Letters and Sciences.* | Seats (Total: 25)<br>JMZ 0118 | |
| 0301 | Keanu Stovall<br>W 3:00pm - 4:15pm<br>*Restricted to first-semester transfer students in Letters and Sciences.* | Seats (Total: 20)<br>SKN 1112 | |

**UNIV108** **Business Exploration Series Colloquium**

*For students interested in pursuing a business career. Students learn the fundamentals of career development and what the internship/job search process entails.*

For students interested in pursuing a business career. Students learn the fundamentals of career development and what the internship/job search process entails.

| | | | |
|---|---|---|---|
| FC02 | Kelly Marbury, Amanda Dennis Wheeler<br>M 4:30pm - 5:20pm<br>W 4:30pm - 5:20pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 30)<br>PHY 2122<br>JMZ 0103 | Discussion |

**UNIV110** **Grand Challenges of Our Time**

(Perm req)

*Restriction: Must have Freshmen standing.*

*An introduction to and solutions to society's grand challenges. Students meet with President Pines once a week and then in small discussion sections with two instructors. Previous topics have included literacy, Black Lives Matter, Covid, environmental justice, poverty, and voting and civic engagement.*

| | | |
|---|---|---|
| 0101 | Jonathan Molnar, Kalika White, Darryll Pines, Lisa Kiely<br>**Meets September 9, 2024 - November 6, 2024**<br>M 4:00pm - 5:15pm<br>W 4:00pm - 5:15pm | Seats (Total: 14)<br><br>ESJ 1224<br>KEY 0100 |
| 0102 | Jonathan Molnar, Evelyn Covington-Moore, Stacia Woycheck, Darryll Pines, Lisa Kiely<br>**Meets September 9, 2024 - November 6, 2024**<br>M 4:00pm - 5:15pm<br>W 4:00pm - 5:15pm | Seats (Total: 14)<br><br>ESJ 1224<br>KEY 0125 |
| 0103 | Lisa Kiely, Darryll Pines, Suzanne Ashour-Bailey, Jonathan Molnar, Brandon Harris<br>**Meets September 9, 2024 - November 6, 2024**<br>M 4:00pm - 5:15pm<br>W 4:00pm - 5:15pm | Seats (Total: 14)<br><br>ESJ 1224<br>WDS 1102 |
| 0105 | Jonathan Molnar, Leeanne Dunsmore, Brittany Johnson, Darryll Pines, Lisa Kiely<br>**Meets September 9, 2024 - November 6, 2024**<br>M 4:00pm - 5:15pm<br>W 4:00pm - 5:15pm | Seats (Total: 14)<br><br>ESJ 1224<br>WDS 1114 |

**UNIV269** **Connecting Across Cultures**

*An examination of culture to guide study abroad students through the stages of cross cultural adjustment and to promote cultural competency by providing the motivation, knowledge and skills necessary to work with diverse individuals and teams.*

**Contact department for information to register for this course.**

**UNIV269A** **Connecting Across Cultures; Cultural Realities of Spain**

*An examination of culture to guide study abroad students through the stages of cross cultural adjustment and to promote cultural competency by providing the motivation, knowledge and skills necessary to work with diverse individuals and teams.*

**Contact department for information to register for this course.**

**UNIV362** **Designing Your Life after College**

*Restriction: Must have earned a minimum of 60 credits.*

*Helps students anticipate and prepare for changes in finances, social life, health, and career dynamics they are likely to experience as they transition from college to working full-time. It focuses on understanding what resources students have as they enter the workforce as critical for navigating post-graduation changes successfully. It offers an overview of financial, risk management and professional development approaches to increase students' confidence regarding post-graduation decisions; in addition, it develops their creative problem solving and reflection skills to help them align the outcomes of their decisions with their values.*

Click here for more information on the Designing Your Life After College including Faculty & Speaker biographies.

| | | |
|---|---|---|
| 0101 | Selah Thom, Joseph Fileppi<br>Tu 4:30pm - 6:30pm | Seats (Total: 25)<br>SQH 1103 |
| 0102 | Parker Kleb, Richard Blackman<br>Tu 4:30pm - 6:30pm | Seats (Total: 20)<br>BPS 1234 |
| 0106 | Gabe Pickett, Kenneth Kokason<br>Tu 4:30pm - 6:30pm | Seats (Total: 25)<br>HBK 1108 |

**UNIV389J** **Special Topics in Undergraduate Studies; Federal Independent Study Projects**

(Perm req)

*Courses will focus on interdisciplinary topics and will be planned in cooperation with Undergraduate Studies.*

Prerequisite: Permission of instructor.

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|---|---|---|
| 0101 | Jayakumar Arasan, Sabrina Labold<br>Class time/details on ELMs | Seats (Total: 25)<br>ONLINE |
| 0201 | Jayakumar Arasan, Sabrina Labold<br>Class time/details on ELMs | Seats (Total: 25)<br>ONLINE |

**UNIV399** **Experiential Learning in Undergraduate Studies**

(Perm req)

*Experiential learning offered in conjunction with certain designated Office of Undergraduate Studies programs.*

| | | | |
|---|---|---|---|
| 0101 | Jayakumar Arasan, Sabrina Labold<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE | |
| 0201 | Jayakumar Arasan, Sabrina Labold<br>Class time/details on ELMs | Seats (Total: 10)<br>ONLINE | |

# URSP Urban Studies and Planning Fall 2024

**URSP250** **The Sustainable City: Exploring Opportunities and Challenges**

*An exploration, through an interdisciplinary approach, of a number of issues related to making cities more sustainable in terms of environmental protection, economic opportunity, and social justice. The course assist students to develop skills in critical analysis and systems thinking and to use those skills in analyzing sustainability related problems and potential solutions, and to expand students' understanding of the political implications of crafting and moving towards a sustainable urban future.*

| | | | |
|---|---|---|---|
| 0101 | Marccus Hendricks<br>M 9:00am - 10:15am<br>W 9:00am - 10:15am | Seats (Total: 45)<br>ARC 0204<br>ARC 1103 | Discussion |
| 0102 | Marccus Hendricks<br>M 9:00am - 10:15am<br>W 9:00am - 10:15am | Seats (Total: 45)<br>ARC 0204<br>ARC 1105 | Discussion |
| 0103 | Marccus Hendricks<br>M 9:00am - 10:15am<br>W 9:00am - 10:15am | Seats (Total: 20)<br>ARC 0204<br>ARC 1127 | Discussion |

**URSP601** **Research Methods**

*Recommended: An undergraduate-level statistics course; and familiarity with Microsoft Excel. Formerly: URBS601.*

*Use of measurement, statistics, quantitative analysis, and micro-computers in urban studies and planning.*

Restriction: Must be in the URSP program.

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|---|---|---|---|
| 0101 | Alibi Shokputov<br>M 11:00am - 1:40pm | Seats (Total: 25)<br>ARC 1101 | |

**URSP603** **Land Use Planning: Concepts and Techniques**

(Perm req)

*Credit only granted for: URSP603, URBS680, or URBS603. Formerly: URBS603.*

*Land use concepts and definitions: legal context for planning; markets and planning; planning for housing; community services, employment, utilities, and transportation; zoning; subdivision regulations; growth management; plan implementation.*

| | | |
|---|---|---|
| 0101 | Dawn Jourdan<br>Th 1:00pm - 3:40pm | Seats (Total: 20)<br>PKT 1112V |

**URSP605** **Planning History and Theory**

(Perm req)

*Examination of key, selected major events and issues in U.S. planning history and the development of the [planning profession; exploration of major themes in planning theory and practical applications of them; and analysis of the relationship of history and theory.*

| | | |
|---|---|---|
| 0101 | Kathryn Howell<br>W 1:00pm - 3:40pm | Seats (Total: 25)<br>PKT 1112V |

**URSP606** **Planning Economics**

(Perm req)

*Restriction: Must not have completed URSP630. Credit only granted for: URSP606, URBS606, or URBS630. Formerly: URBS606.*

*Resource allocation in a market economy, the nature of market failures, and the justifications for public sector intervention. The limits and possibilities for planning in a market economy.*

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|---|---|---|
| 0101 | Chengri Ding<br>Tu 4:00pm - 6:40pm | Seats (Total: 15)<br>ARC 1123 |

**URSP688I** **Recent Developments in Urban Studies; The Comprehensive Plan**

(Perm req)

*Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.*

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|---|---|---|
| 0101 | David Rouse<br>M 7:00pm - 9:40pm | Seats (Total: 15)<br>ARC 1119 |

**URSP688L** **Recent Developments in Urban Studies; Planning Technology**

(Perm req)

*Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.*

An introduction to technologies that are vital for contemporary planners. Whether planners work at the local, state, or federal level, for-profit or non-profit, urban or rural, or with targeted neighborhoods or regional entities, the necessity for planners to, at a minimum, understand technologies is paramount. These technologies are used to plan, develop, manage, and analyze geographic areas and their respective populations. Given the past, present, and assuredly future ubiquity of Geographic Information Systems (GIS), this course's major focus will be on developing analytical and visual GIS skills. Parallel to acquiring initial GIS skills using the most current and widespread software platforms for GIS, students will employ real-life 'hands-on' experience alongside instruction for analysis and visualization both in the static/desktop environments as well as in more dynamic/web environments.

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|---|---|---|
| 0101 | Hiroyuki Iseki | Seats (Total: 20) |
| | Tu 7:00pm - 9:40pm | ARC 0111 |

**URSP688X** **Recent Developments in Urban Studies; Planning, Policy, and Public Education**

(Perm req)

*Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.*

| | | |
|---|---|---|
| 0101 | Ariel Bierbaum | Seats (Total: 20) |
| | Tu 1:00pm - 3:40pm | PKT 1112V |

**URSP688Z** **Recent Developments in Urban Studies; Planning & Design in the Multicultural Metropolis**

(Perm req)

*Examination of selected current aspects of urban affairs and planning, including, for example, in the United States or neighborhood preservation in Russia. Location of course may be off-campus.*

This course explores theoretical, ethical, and practical questions abouttoday's multicultural metropolis. It addresses trends racial and ethnic inequality and draws on theories of justice, multicultural and intercultural planning, and the politics of difference to explore opportunities for change. It examines planners' roles in dealing with conflicting and competing uses and users, fostering spaces that meet theneeds of different groups, and promoting social and economic equity through the design of the built environment and urban policy.

| | | |
|---|---|---|
| 0101 | Willow Lung Amam | Seats (Total: 16) |
| | W 11:00am - 1:40pm | ARC 1119 |

**URSP708** **Community Planning Studio**

(Perm req)

*The Community Planning Studio is a "capstone" course intended to provide students with an opportunity to apply their knowledge and skills to analyze current, pressing planning issues, in a selected community and to produce a report containing recommendations for addressing those issues. In essence, students act as a consulting team for a community client.*

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|---|---|---|
| 0101 | Clara Irazabal Zurita, Kevin Nelson<br>TuTh 4:00pm - 6:40pm | Seats (Total: 12)<br>PKT 1112V |

**URSP709** **Field Instruction**

(Perm req)

*Students will satisfy a 300-hour internship (20 hours for 15 weeks during the spring, 25 hours a week for 12 weeks during the summer). Suitable internships are approved by the Internship Coordinator or Instructor; they involve a significant amount of planning work (preferably in the student's are of interest) and provide an appropriate on-site supervisor. The Internship Coordinator will assist students in finding a suitable internship, but the ultimate responsibility rests with each student. Whether the internship is paid or not is a matter to be worked out between the student and the organization.*

| | | |
|---|---|---|
| 0101 | Casey Dawkins<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |
| 0102 | Kathryn Howell<br>Class time/details on ELMs | Seats (Total: 5)<br>ONLINE |
| 1001 | Gerrit Knaap<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |
| 1201 | Chengri Ding<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |
| 1401 | Marccus Hendricks<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |
| 1501 | Ariel Bierbaum<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |
| 1601 | Hiroyuki Iseki<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |
| 1701 | Instructor: TBA<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |
| 1801 | Instructor: TBA<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |
| 2103 | Willow Lung Amam<br>Class time/details on ELMs | Seats (Total: 20)<br>ONLINE |

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|---|---|---|
| 2107 | Clara Irazabal Zurita | Seats (Total: 20) |
| | Class time/details on ELMs | ONLINE |

**URSP788** **Independent Study in Urban Studies and Planning**

(Perm req)

*Directed research and study of selected aspects of urban affairs.*

**Contact department for information to register for this course.**

**URSP798** **Readings in Urban Studies and Planning**

(Perm req)

*Directed readings in selected aspects of urban affairs and planning.*

**Contact department for information to register for this course.**

**URSP799** **Master's Thesis Research**
**Contact department for information to register for this course.**

**URSP804** **Advanced Planning Theory**

*Relations between theory and practice in planning. Ways of developing and using knowledge in collective action. Challenges to organizing for planning, finding knowledge useful for planning and balancing social attachments with free inquiry.*

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|---|---|---|
| 0101 | Casey Dawkins | Seats (Total: 15) |
| | Tu 1:00pm - 3:40pm | ARC 1119 |

**URSP810** **Contemporary Metropolitan Issues**

*Restriction: Must be in Urban and Regional Planning and Design (Doctoral) program.*

*Introduces Ph.D. students to current metropolitan issues. Focus is on the historical development of the issue, problem definition, methodological approaches to its study, methodological dilemmas, and the ways that different conclusions are translated into policy. Topics vary from semester to semester but include such topics as the spatial mismatch hpothesis, the impact of urban design and form on travel behavior, the impact of technology on urban form, the justification for historic preservation, and sustainable development.*

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|---|---|---|
| 0101 | Hiroyuki Iseki | Seats (Total: 10) |
| | Th 1:00pm - 3:40pm | ARC 1119 |

**URSP898** **Pre-Candidacy Research**

*Selected topics in Urban Studies and Planning. Topics will vary with the instructor.*

**Contact department for information to register for this course.**

**URSP899** **Doctoral Dissertation Research**

(Perm req)

*This course is a required course for the Ph.D program in Urban and Regional Planning and Design.*

**Contact department for information to register for this course.**

# USLT Latina/o Studies Fall 2024

*Please visit http://amst.umd.edu/programs/course/ for more course information.*

**USLT201** **U.S. Latina/o Studies I: An Historical Overview to the 1960's**

*Interdisciplinary course focusing on demographics, terminology and social constructs of race, class, ethnicity, indigeneity, gender, and sexuality associated with the historical and political roots of US Latinidades. Examines the formation, evolution an adaptation of US Latina/o communities as critical field of inquiry.*

| | | |
|---|---|---|
| 0101 | Robert Chester | Seats (Total: 25) |
| | TuTh 9:30am - 10:45am | JMP 1109 |

**USLT369A** **Special Topics in Study Abroad III; Thinking in Andalusian: The Antonio Machado Family of Seville**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**USLT450** **Central Americans and the United States: Culture, Politics, and Community**

*Credit only granted for: AMST498C, USLT450 or USLT498D. Formerly: USLT498D.*

*With attention to history, memory, politics, and culture, this course examines the relationships, conflicts, and exchanges of people and power between the United States and the Central American isthmus. We will investigate the role of the US government and military, as well as US corporate interests and US-backed dictatorships, in the culture, politics, and economy of nations including El Salvador, Nicaragua, Guatemala, and Honduras. Through literature, feature films, documentary films, theatre, poetry, and other mediums, the class will analyze responses to this history in Central American cultural productions originating both from the isthmus and from Central Americans living in the United States. In addition to US interventions in the Americas, the course will examine migration from Central America to North America and will conclude by exploring the lives and activities of Central Americans living in the USA.*

Cross-listed with AMST498C.

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|---|---|---|
| 0101 | Robert Chester | Seats (Total: 20) |
| | TuTh 12:30pm - 1:45pm | JMP 1109 |

**USLT498F** **US Latina/o Studies: Special Topics; Spanish for the professions**

*Specific content to be announced when courses are offered.*

Cross-listed with SPAN359U.  Credit only granted for SPAN359U or USLT498F. This class introduces you to the histories, struggles, and major issues pertaining to Latina/o/x/e communities in the United States through the lenses of language, expression, and representation. It intends to give you context to work in and with Latine communities. Class readings and discussions will be in Spanish and English. Writing will be in Spanish for Spanish minors and majors and in English for students in other majors. All are welcome!

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|---|---|---|
| 0101 | Ana Rodriguez | Seats (Total: 20) |
| | TuTh 11:00am - 12:15pm | JMZ 2207 |

**USLT498G** **US Latina/o Studies: Special Topics; Critical Language Pedagogy for Language Justice**

*Specific content to be announced when courses are offered.*

Cross-listed with SPAN687 and USLT498G. Credit only granted for SPAN478P, SPAN687, or USLT498G. Anchored in a critical interdisciplinary approach focusing on the sociopolitical and ideological dimensions of language, this course offers students the opportunity to explore and apply critical language teaching practices. Through socially responsive pedagogies, students will learn how to promote change towards equity and justice in the (language) classroom and beyond. The course includes a practical final project. Taught (mainly) in Spanish.

| | | |
|---|---|---|
| 0101 | Jose Magro | Seats (Total: 20) |
| | W 5:00pm - 7:30pm | Location: TBA |
| | W 5:00pm - 7:30pm | ONLINE |

# VIPS Vertically Integrated Projects Fall 2024

**VIPS099E** **Vertically Integrated Projects; Engineering on the Edge of Space**

(Perm req)

*Team members in this non-credit course will participate with VIP@Maryland through a paid opportunity. Students will engage on interdisciplinary and vertically-integrated teams with a focus on research, design, industry competition, entrepreneurship, and community engagement projects related to active research and exploration areas of UMD faculty members. Students will also participate in lectures and professional development activities that include topics related to design, research, documentation and technical writing, communication, leadership and teamwork, ethics, project management, intellectual property, information literacy, and introduction to a broad range of applicable research topics, technologies and development tools. Students are expected to maintain involvement with the same project team for multiple terms.*

Restriction: Permission of department. Students must apply through the VIP@Maryland application process in order to join a VIP team. Design, build, test, and fly engineering experiments to the Edge of Space and beyond! Most of our flights are on latex weather balloons which can go up to an altitude of 100,000 ft or above, but we may also fly on high-altitude long-duration NASA balloons and sounding rockets. A common theme in all this research is designing light weight and low-cost experiments that can produce meaningful data and results in flight. We also like to share our enthusiasm for space engineering with kids, so we have a number of ongoing outreach activities that we encourage all participants to get involved in.

| | | |
|---|---|---|
| 0101 | Kelly McNulty, Mary Bowden, Brian Dillehay<br>Contact instructor or department for details. | Seats (Total: 10) |

**VIPS208E** **Starting with Vertically Integrated Projects; Engineering on the Edge of Space**

(Perm req)

*Team members beginning their experience with VIP@Maryland will engage on interdisciplinary and vertically-integrated teams with a focus on research, design, industry competition, entrepreneurship, and community engagement projects related to active research and exploration areas of UMD faculty members. Students will also participate in lectures and professional development activities that include topics related to design, research, documentation and technical writing, communication, leadership and teamwork, ethics, project management, intellectual property, information literacy, and introduction to a broad range of applicable research topics, technologies and development tools. Students are expected to maintain involvement with the same project team for multiple terms.*

Restriction: Permission of department. Students must apply through the VIP@Maryland application process in order to join a VIP team. Design, build, test, and fly engineering experiments to the Edge of Space and beyond! Most of our flights are on latex weather balloons which can go up to an altitude of 100,000 ft or above, but we may also fly on high-altitude long-duration NASA balloons and sounding rockets. A common theme in all this research is designing light weight and low-cost experiments that can produce meaningful data and results in flight. We also like to share our enthusiasm for space engineering with kids, so we have a number of ongoing outreach activities that we encourage all participants to get involved in.

| | | |
|---|---|---|
| 0101 | Mary Bowden, Brian Dillehay, Kelly McNulty<br>F 5:30pm - 7:30pm | Seats (Total: 4)<br>AJC 2119 |

**VIPS208F** **Starting with Vertically Integrated Projects; Hand-On At-Home Fluids Projects**

(Perm req)

*Team members beginning their experience with VIP@Maryland will engage on interdisciplinary and vertically-integrated teams with a focus on research, design, industry competition, entrepreneurship, and community engagement projects related to active research and exploration areas of UMD faculty members. Students will also participate in lectures and professional development activities that include topics related to design, research, documentation and technical writing, communication, leadership and teamwork, ethics, project management, intellectual property, information literacy, and introduction to a broad range of applicable research topics, technologies and development tools. Students are expected to maintain involvement with the same project team for multiple terms.*

Restriction: Permission of department. Students must apply through the VIP@Maryland application process in order to join a VIP team. Having a hands-on lab component to fluid dynamics courses has always been an important part of the pedagogy. However, traditional instruction has required expensive room-sized equipment that is used by relatively large groups, limiting the time for exploration and real understanding of the important principles. The goal of this project is to develop a series of instructional kits that can be purchased by individual students and used at home, permitting a more creative and individualized exploration of the material, and a greater sense of ownership and depth of understanding. If you have an interest in thinking about a new way of learning, and/or interest in remote-controlled vehicles and model construction/design, this project may be a good fit for you!

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|---|---|---|
| 0101 | Ken Kiger, Brian Dillehay, Kelly McNulty | Seats (Total: 6) |
| | F 8:00am - 10:00am | AJC 1106 |

**VIPS208R** **Starting with Vertically Integrated Projects; 3D-Printed Video Game-Playing Soft Robots**

(Perm req)

*Team members beginning their experience with VIP@Maryland will engage on interdisciplinary and vertically-integrated teams with a focus on research, design, industry competition, entrepreneurship, and community engagement projects related to active research and exploration areas of UMD faculty members. Students will also participate in lectures and professional development activities that include topics related to design, research, documentation and technical writing, communication, leadership and teamwork, ethics, project management, intellectual property, information literacy, and introduction to a broad range of applicable research topics, technologies and development tools. Students are expected to maintain involvement with the same project team for multiple terms.*

Restriction: permission of department. Students must apply through the VIP@Maryland application process in order to join a VIP team. Soft robots have emerged as powerful alternatives for applications that would be difficult or impossible to realize using traditional, rigid robots. Despite a number of inherent benefits for soft robots, particularly in terms of safety for human-robot interactions, challenges associated with controlling the underlying fluidics of such systems represent key barriers to utility. Recently, Sochol's "Bioinspired Advanced Manufacturing (BAM)" Laboratory introduced a strategy for 3D printing soft robots comprising fully integrated fluidic ircuitry in a single print run and demonstrated a soft robotic "hand" capable of beating the first level ofSuper Mario Bros. This particular approach relied on an expensive (>$100,000) 3D printer. The goal of this project is to extend this strategy to inexpensive (e.g., <$500) 3D printers to support accessibility and demonstrate its efficacy by engineering soft robots capable of playing video games.

| | | | |
|---|---|---|---|
| 0101 | Ryan Sochol, Brian Dillehay, Kelly McNulty<br>F 11:00am - 12:00pm | Seats (Total: 2)<br>AJC 1106 |

**VIPS208T** **Starting with Vertically Integrated Projects; TerpTrails: A Bluetooth Navigation and Exploration App**

(Perm req)

*Team members beginning their experience with VIP@Maryland will engage on interdisciplinary and vertically-integrated teams with a focus on research, design, industry competition, entrepreneurship, and community engagement projects related to active research and exploration areas of UMD faculty members. Students will also participate in lectures and professional development activities that include topics related to design, research, documentation and technical writing, communication, leadership and teamwork, ethics, project management, intellectual property, information literacy, and introduction to a broad range of applicable research topics, technologies and development tools. Students are expected to maintain involvement with the same project team for multiple terms.*

Restriction: Permission of department. Students must apply through the VIP@Maryland application process in order to join a VIP team. The goal of this project is to create a location-based tool for students, faculty, staff and visitors to inform them of general information and events happening around them in real time. For example, a prospective student visiting campus can take an App guided tour based upon the major(s) they are interested in, visiting the facilities and learning about all the major has to offer. Based upon App-collected data, including where they visited and how long they spent at each location, a follow-up email can introduce them to staff that can answer questions. Another example would be letting a student passing a building know that there is currently free pizza at an event inside. Current project goals include developing the prototype app, exploring the potential of sensor technologies, designing data collection processes, developing additional use cases, and setting up and conducting field tests.

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|---|---|---|
| 0101 | Dmitry Akmal, Bryan Quinn, Yanne Chembo, Brian Dillehay, Kelly McNulty<br>W 3:30pm - 4:30pm | Seats (Total: 2)<br>AVW 1318 |

**VIPS308E** **Engaging with Vertically Integrated Projects; Engineering on the Edge of Space**

(Perm req)

*Team members will expand their role and responsibilities on their selected VIP@Maryland team. They will engage on interdisciplinary and vertically-integrated teams with a focus on research, design, industry competition, entrepreneurship, and community engagement projects related to active research and exploration areas of UMD faculty members. Students will also participate in lectures and professional development activities that include topics related to design, research, documentation and technical writing, communication, leadership and teamwork, ethics, project management, intellectual property, information literacy, and introduction to a broad range of applicable research topics, technologies and development tools. Students are expected to maintain involvement with the same project team for multiple terms.*

Restriction: Permission of department. Students must apply through the VIP@Maryland application process in order to join a VIP team. Design, build, test, and fly engineering experiments to the Edge of Space and beyond! Most of our flights are on latex weather balloons which can go up to an altitude of 100,000 ft or above, but we may also fly on high-altitude long-duration NASA balloons and sounding rockets. A common theme in all this research is designing light weight and low-cost experiments that can produce meaningful data and results in flight. We also like to share our enthusiasm for space engineering with kids, so we have a number of ongoing outreach activities that we encourage all participants to get involved in.

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|---|---|---|
| 0101 | Kelly McNulty, Brian Dillehay, Mary Bowden<br>F 5:30pm - 7:30pm | Seats (Total: 11)<br>AJC 2119 |

**VIPS308F** **Engaging with Vertically Integrated Projects; Hands-on At-Home Fluids Projects**

(Perm req)

*Team members will expand their role and responsibilities on their selected VIP@Maryland team. They will engage on interdisciplinary and vertically-integrated teams with a focus on research, design, industry competition, entrepreneurship, and community engagement projects related to active research and exploration areas of UMD faculty members. Students will also participate in lectures and professional development activities that include topics related to design, research, documentation and technical writing, communication, leadership and teamwork, ethics, project management, intellectual property, information literacy, and introduction to a broad range of applicable research topics, technologies and development tools. Students are expected to maintain involvement with the same project team for multiple terms.*

Restriction: Permission of department. Students must apply through the VIP@Maryland application process in order to join a VIP team. Having a hands-on lab component to fluid dynamics courses has always been an important part of the pedagogy. However, traditional instruction has required expensive room-sized equipment that is used by relatively large groups, limiting the time for exploration and real understanding of the important principles. The goal of this project is to develop a series of instructional kits that can be purchased by individual students and used at home, permitting a more creative and individualized exploration of the material, and a greater sense of ownership and depth of understanding. If you have an interest in thinking about a new way of learning, and/or interest in remote-controlled vehicles and model construction/design, this project may be a good fit for you!

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|---|---|---|
| 0101 | Kelly McNulty, Brian Dillehay, Ken Kiger<br>F 8:00am - 10:00am | Seats (Total: 5)<br>AJC 1106 |

**VIPS308R** **Engaging with Vertically Integrated Projects; 3D-Printed Video Game-Playing Soft Robots**

(Perm req)

*Team members will expand their role and responsibilities on their selected VIP@Maryland team. They will engage on interdisciplinary and vertically-integrated teams with a focus on research, design, industry competition, entrepreneurship, and community engagement projects related to active research and exploration areas of UMD faculty members. Students will also participate in lectures and professional development activities that include topics related to design, research, documentation and technical writing, communication, leadership and teamwork, ethics, project management, intellectual property, information literacy, and introduction to a broad range of applicable research topics, technologies and development tools. Students are expected to maintain involvement with the same project team for multiple terms.*

Restriction: permission of department. Students must apply through the VIP@Maryland application process in order to join a VIP team. Soft robots have emerged as powerful alternatives for applications that would be difficult or impossible to realize using traditional, rigid robots. Despite a number of inherent benefits for soft robots, particularly in terms of safety for human-robot interactions, challenges associated with controlling the underlying fluidics of such systems represent key barriers to utility. Recently, Sochol's "Bioinspired Advanced Manufacturing (BAM)" Laboratory introduced a strategy for 3D printing soft robots comprising fully integrated fluidic ircuitry in a single print run and demonstrated a soft robotic "hand" capable of beating the first level ofSuper Mario Bros. This particular approach relied on an expensive (>$100,000) 3D printer. The goal of this project is to extend this strategy to inexpensive (e.g., <$500) 3D printers to support accessibility and demonstrate its efficacy by engineering soft robots capable of playing video games.

| | | |
|---|---|---|
| 0101 | Kelly McNulty, Ryan Sochol, Brian Dillehay | Seats (Total: 10) |
| | F 11:00am - 12:00pm | AJC 1106 |

**VIPS308T** **Engaging with Vertically Integrated Projects; TerpTrails: A Bluetooth Navigation and Exploration App**

(Perm req)

*Team members will expand their role and responsibilities on their selected VIP@Maryland team. They will engage on interdisciplinary and vertically-integrated teams with a focus on research, design, industry competition, entrepreneurship, and community engagement projects related to active research and exploration areas of UMD faculty members. Students will also participate in lectures and professional development activities that include topics related to design, research, documentation and technical writing, communication, leadership and teamwork, ethics, project management, intellectual property, information literacy, and introduction to a broad range of applicable research topics, technologies and development tools. Students are expected to maintain involvement with the same project team for multiple terms.*

Restriction: Permission of department. Students must apply through the VIP@Maryland application process in order to join a VIP team. The goal of this project is to create a location-based tool for students, faculty, staff and visitors to inform them of general information and events happening around them in real time. For example, a prospective student visiting campus can take an App guided tour based upon the major(s) they are interested in, visiting the facilities and learning about all the major has to offer. Based upon App-collected data, including where they visited and how long they spent at each location, a follow-up email can introduce them to staff that can answer questions. Another example would be letting a student passing a building know that there is currently free pizza at an event inside. Current project goals include developing the prototype app, exploring the potential of sensor technologies, designing data collection processes, developing additional use cases, and setting up and conducting field tests.

| | | |
|---|---|---|
| 0101 | Bryan Quinn, Yanne Chembo, Brian Dillehay, Dmitry Akmal, Kelly McNulty<br>W 3:30pm - 4:30pm | Seats (Total: 8)<br>AVW 1318 |

**VIPS408E** **Leading with Vertically Integrated Projects; Engineering on the Edge of Space**

(Perm req)

*Advanced team members will take on mentorship and leaderships roles within their VIP@Maryland project. They will engage on interdisciplinary and vertically-integrated teams with a focus on research, design, industry competition, entrepreneurship, and community engagement projects related to active research and exploration areas of UMD faculty members. Students will also participate in lectures and professional development activities that include topics related to design, research, documentation and technical writing, communication, leadership and teamwork, ethics, project management, intellectual property, information literacy, and introduction to a broad range of applicable research topics, technologies and development tools. Students are expected to maintain involvement with the same project team for multiple terms.*

Restriction: Permission of department. Students must apply through the VIP@Maryland application process in order to join a VIP team. Design, build, test, and fly engineering experiments to the Edge of Space and beyond! Most of our flights are on latex weather balloons which can go up to an altitude of 100,000 ft or above, but we may also fly on high-altitude long-duration NASA balloons and sounding rockets. A common theme in all this research is designing light weight and low-cost experiments that can produce meaningful data and results in flight. We also like to share our enthusiasm for space engineering with kids, so we have a number of ongoing outreach activities that we encourage all participants to get involved in.

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|---|---|---|
| 0101 | Mary Bowden, Brian Dillehay, Kelly McNulty<br>F 5:30pm - 7:30pm | Seats (Total: 6)<br>AJC 2119 |

**VIPS408F** **Leading with Vertically Integrated Projects; Hands-on At-Home Fluids Projects**

(Perm req)

*Advanced team members will take on mentorship and leaderships roles within their VIP@Maryland project. They will engage on interdisciplinary and vertically-integrated teams with a focus on research, design, industry competition, entrepreneurship, and community engagement projects related to active research and exploration areas of UMD faculty members. Students will also participate in lectures and professional development activities that include topics related to design, research, documentation and technical writing, communication, leadership and teamwork, ethics, project management, intellectual property, information literacy, and introduction to a broad range of applicable research topics, technologies and development tools. Students are expected to maintain involvement with the same project team for multiple terms.*

Restriction: Permission of department. Students must apply through the VIP@Maryland application process in order to join a VIP team. Having a hands-on lab component to fluid dynamics courses has always been an important part of the pedagogy. However, traditional instruction has required expensive room-sized equipment that is used by relatively large groups, limiting the time for exploration and real understanding of the important principles. The goal of this project is to develop a series of instructional kits that can be purchased by individual students and used at home, permitting a more creative and individualized exploration of the material, and a greater sense of ownership and depth of understanding. If you have an interest in thinking about a new way of learning, and/or interest in remote-controlled vehicles and model construction/design, this project may be a good fit for you!

| | | |
|---|---|---|
| 0101 | Kelly McNulty, Brian Dillehay, Ken Kiger | Seats (Total: 6) |
| | F 8:00am - 10:00am | AJC 1106 |

**VIPS408R** **Leading with Vertically Integrated Projects; 3D-Printed Video Game-Playing Soft Robots**

(Perm req)

*Advanced team members will take on mentorship and leaderships roles within their VIP@Maryland project. They will engage on interdisciplinary and vertically-integrated teams with a focus on research, design, industry competition, entrepreneurship, and community engagement projects related to active research and exploration areas of UMD faculty members. Students will also participate in lectures and professional development activities that include topics related to design, research, documentation and technical writing, communication, leadership and teamwork, ethics, project management, intellectual property, information literacy, and introduction to a broad range of applicable research topics, technologies and development tools. Students are expected to maintain involvement with the same project team for multiple terms.*

Restriction: permission of department. Students must apply through the VIP@Maryland application process in order to join a VIP team. Soft robots have emerged as powerful alternatives for applications that would be difficult or impossible to realize using traditional, rigid robots. Despite a number of inherent benefits for soft robots, particularly in terms of safety for human-robot interactions, challenges associated with controlling the underlying fluidics of such systems represent key barriers to utility. Recently, Sochol's "Bioinspired Advanced Manufacturing (BAM)" Laboratory introduced a strategy for 3D printing soft robots comprising fully integrated fluidic ircuitry in a single print run and demonstrated a soft robotic "hand" capable of beating the first level ofSuper Mario Bros. This particular approach relied on an expensive (>$100,000) 3D printer. The goal of this project is to extend this strategy to inexpensive (e.g., <$500) 3D printers to support accessibility and demonstrate its efficacy by engineering soft robots capable of playing video games.

| | | |
|---|---|---|
| 0101 | Kelly McNulty, Brian Dillehay, Ryan Sochol | Seats (Total: 5) |
| | F 11:00am - 12:00pm | AJC 1106 |

**VIPS408T** **Leading with Vertically Integrated Projects; TerpTrails: A Bluetooth Navigation and Exploration App**

(Perm req)

*Advanced team members will take on mentorship and leaderships roles within their VIP@Maryland project. They will engage on interdisciplinary and vertically-integrated teams with a focus on research, design, industry competition, entrepreneurship, and community engagement projects related to active research and exploration areas of UMD faculty members. Students will also participate in lectures and professional development activities that include topics related to design, research, documentation and technical writing, communication, leadership and teamwork, ethics, project management, intellectual property, information literacy, and introduction to a broad range of applicable research topics, technologies and development tools. Students are expected to maintain involvement with the same project team for multiple terms.*

Restriction: Permission of department. Students must apply through the VIP@Maryland application process in order to join a VIP team. The goal of this project is to create a location-based tool for students, faculty, staff and visitors to inform them of general information and events happening around them in real time. For example, a prospective student visiting campus can take an App guided tour based upon the major(s) they are interested in, visiting the facilities and learning about all the major has to offer. Based upon App-collected data, including where they visited and how long they spent at each location, a follow-up email can introduce them to staff that can answer questions. Another example would be letting a student passing a building know that there is currently free pizza at an event inside. Current project goals include developing the prototype app, exploring the potential of sensor technologies, designing data collection processes, developing additional use cases, and setting up and conducting field tests.

| | | |
|---|---|---|
| 0101 | Bryan Quinn, Yanne Chembo, Dmitry Akmal, Brian Dillehay, Kelly McNulty | Seats (Total: 3) |
| | W 3:30pm - 4:30pm | AVW 1318 |

# VMSC Veterinary Medical Sciences Fall 2024

**VMSC610** **Recombinant Viral Vectors**

*A comprehensive presentation of information on the molecular biology of the most relevent viral vectors developed to date and give insight on vector contruction, purification and utilization. Also intended for students in virology and related fields as well as to those interested in the application of viral vectors to basic research.*

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|---|---|---|
| 0101 | George Belov | Seats (Total: 10) |
| | Contact instructor or department for details. | |

**VMSC698** **One Health Seminar**

*"One Health" is an approach that recognizes that health of people is closely connected to health of animals and our shared environment. Outstanding leaders in the field will present ideas for analysis and discussion among class members. Topics will include presentation and discussion of scientific publications, current topics, and new methodologies.*

Class will meet in 1216 Gudelsky Building.

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|---|---|---|
| 0101 | Alix Berglund<br>Th 11:00am - 12:00pm | Seats (Total: 20)<br>GVC 1216 |

**VMSC699** **Special Problems in Veterinary Medical Sciences**

*Independent study of a specific problem related to veterinary medicine such as a disease outbreak, application of a new diagnostic test or a risk analysis related to animal health. Targeted at veterinary medicine (DVM) students and other graduate students with a background in veterinary medicine.*

**Contact department for information to register for this course.**

**VMSC758** **Journal Club in Comparative Biomedical Sciences**

*The Journal Club in Comparative Biomedical Sciences is a graduate-level student-driven course. Each student will pick a peer-reviewed journal article for individual presentation and group discussion. The articles will cover a wide variety of biomedical science topics based on student and group interests.*

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|---|---|---|
| 0101 | Seth Dickey<br>M 11:00am - 12:00pm | Seats (Total: 10)<br>Location: TBA |

**VMSC760** **Immunology of Infectious Diseases**

*An advanced graduate level course that focuses on the cutting-edge knowledge of immunity and recent research breakthroughs in the interactions between host immune system and infectious pathogen, and vaccine development*

| | | |
|---|---|---|
| 0101 | Meiqing Shi, Jaekeun Park<br>TuTh 1:45pm - 3:00pm | Seats (Total: 25)<br>Location: TBA |

**VMSC780** **Parasites of Medical and Veterinary Importance**

*Restriction: Permission of instructor.*

*Provides students with the basic knowledge of parasites as well as research advancement in important parasites of humans and animals. Particular attention will be given to parasite biology, pathogenesis, and host responses to parasitic infection. A selection of parasites of medical and veterinary importance will be specifically covered with emphasis on recent research breakthroughs in the field.*

**Contact department for information to register for this course.**

**VMSC799** **Thesis Research**
**Contact department for information to register for this course.**

**VMSC898** **Pre-Candidacy Research**
**Contact department for information to register for this course.**

**VMSC899** **Dissertation Research**

(Perm req)

**Contact department for information to register for this course.**

# WEID Words of Engagement Intergroup Dialogue Program — Fall 2024

**WEID139B** **Navigating Social Identity Difference through Intergroup Dialogue; Race, Gender, or Socioeconomic Status**

*Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on identity-based topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.*

| | | |
|---|---|---|
| 0101 | Sarah Dammeyer, Taylor Green, Leslie Krafft, Brandon Harris, Tyanna Clayton-Mallett, Cody Norton, Camila Ozores Silva<br>**Meets August 26, 2024 - October 10, 2024**<br>Tu 5:30pm - 7:30pm | Seats (Total: 45)<br>Location: TBA |

**WEID139L** **Navigating Social Identity Difference through Intergroup Dialogue; Race, Gender, or Citizenship**

*Engages students, from one or more cultural identity groups, in facilitated dialogue about the similarities and differences of experience that exist within a group and/or between and across groups. The goal of intergroup dialogue is for students to develop comfort with, and skill for, discourse on identity-based topics toward the end of fostering positive, meaningful, and sustained cross-group relationships. Whereas in debate, students learn to listen to gain advantage, in intergroup dialogue, students learn to listen to gain understanding. In so doing, students develop increased multicultural interaction facility, heightened intergroup awareness and sensitivity, and greater commitment to civic engagement.*

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|---|---|---|
| 0201 | Rebeca Moreno, Leslie Krafft, Camila Ozores Silva, Taylor Apolonio, Ashley Mena, Kiyah McDermid, Carlos Choppin, Tyrese Fenty<br>**Meets October 16, 2024 - December 9, 2024**<br>W 5:30pm - 7:30pm | Seats (Total: 45)<br>Location: TBA |

**WEID300** **Intergroup Dialogue Facilitator Development & Practicum**

*Prerequisite: Permission of instructor. Restriction: Students must be given permission to enroll and be admitted to the intergroup dialogue facilitator program. Cross-listed with: CPSP300, HONR300.*

*Facilitation is an artform and a science. This course is designed to introduce students to foundational dialogue facilitation skills and social justice frameworks needed to effectively facilitate group interactions across and within social differences. Students will apply the skills learned by facilitating a multi-session dialogue course with either the Common Ground or the Words of Engagement Intergroup Dialogue Program (WeIDP).*

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|---|---|---|---|
| 0101 | Jazmin Pichardo, Nicole Mehta, Nikita Kimani<br>TuTh 2:00pm - 4:00pm | Seats (Total: 16)<br>PFR 1111 | |

# WGSS Women, Gender, and Sexuality Studies Fall 2024

**WGSS105** **Introduction to Disability Studies**

*This course will introduce students to theories of disability justice as they intersect with feminist and antiracist struggles. Tracing the emergence of the concept of disability alongside the rise of racial knowledge since the 19th century, we will consider how disability activists have responded to ableism by developing art, political strategies, and subcultures that promote a more just society built for a wider variety of human bodies. Students will learn about the moral, medical, social, and ecological models of disability; explore varied disability experiences relating to mental illness, chronic disease, and sensory and mobility impairments; debate ethical questions concerning eugenics, selective abortion, health care access, and medical technologies; and analyze the work of disabled artists and activists of color. Students will also discuss principles of universal design which seek to make classrooms more just and collaborative. In order to balance accessibility and community building, the course has been designed for synchronous online instruction complemented by optional in-person sessions.*

| | | | |
|---|---|---|---|
| 0101 | Neel Ahuja<br>MW 3:00pm - 3:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 25)<br>ONLINE<br>ONLINE | <br><br>Discussion |
| 0102 | Neel Ahuja<br>MW 3:00pm - 3:50pm<br>F 3:00pm - 3:50pm | Seats (Total: 25)<br>ONLINE<br>ONLINE | <br><br>Discussion |
| 0103 | Neel Ahuja<br>MW 3:00pm - 3:50pm<br>F 2:00pm - 2:50pm | Seats (Total: 25)<br>ONLINE<br>ONLINE | <br><br>Discussion |
| 0104 | Neel Ahuja<br>MW 3:00pm - 3:50pm<br>F 12:00pm - 12:50pm | Seats (Total: 25)<br>ONLINE<br>ONLINE | <br><br>Discussion |

| | | | |
|---|---|---|---|
| 0105 | Neel Ahuja<br>MW 3:00pm - 3:50pm<br>F 1:00pm - 1:50pm | Seats (Total: 20)<br>ONLINE<br>ONLINE | Discussion |

**WGSS200** **Introduction to WGSS: Gender, Power, and Society**

*Credit only granted for: WMST200 or WGSS200. Formerly: WMST200.*

*Examines constructions of race, class, sexuality, ability, and gender relations from a social science multi-disciplinary perspective. The course interrogates the ways that systems of hierarchy and privilege are created, enforced, and intersect through the language of race, class, sexuality, and national belonging. The course will provide students with the skills to examine how systems of power manifest in areas such as poverty, division of labor, health disparities, policing, violence. In addition to examining the impact of systems of power, students will reflect on their own location within the exercise of racialized, and gendered power relations. This course encourages students to understand and critique these systems both personally and politically.*

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|---|---|---|
| 0101 | Sydney Lewis<br>MW 2:00pm - 3:15pm | Seats (Total: 35)<br>SPH 0302 |
| FC01 | Jocelyn Coates<br>TuTh 6:00pm - 7:15pm<br>*Restricted to students in Freshmen Connection.* | Seats (Total: 20)<br>SQH 2120 |

**WGSS250** **Introduction to WGSS: Art and Culture**

*Credit only granted for: WMST250 or WGSS250. Formerly: WMST250.*

*Provides students with a critical introduction to the ways that art and art activism have served as a conduit to understanding and challenging systems of inequity and practices of normativity. Interrogating the categories of gender, sexuality, race, class, ability, the course will provide students with an examination of how artists have responded to pressing social justice issues of their eras. While the course centers visual art, students will also engage genres such as music, plays, literature, digital and performance art as arenas of social change.*

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|---|---|---|
| 0301 | Michelle Rowley<br>MW 3:00pm - 4:15pm | Seats (Total: 34)<br>SQH 2120 |
| 0401 | Jocelyn Coates<br>TuTh 9:30am - 10:45am | Seats (Total: 34)<br>SQH 2120 |
| 0501 | Jocelyn Coates<br>TuTh 11:00am - 12:15pm | Seats (Total: 34)<br>SQH 2120 |

| | | |
|---|---|---|
| 0601 | Renee Scott, Neel Ahuja<br>MW 8:30am - 9:45am | Seats (Total: 35)<br>ONLINE |
| 0701 | Taylor York<br>MW 10:00am - 11:15am | Seats (Total: 35)<br>ONLINE |

**WGSS255** **Reading Women Writing**

*Cross-listed with: ENGL250. Credit only granted for: ENGL250, WMST255 or WGSS255. Formerly: WMST255.*

*Explores literary and cultural expressions by women and their receptions within a range of historical periods and genres. Topics such as what does a woman need in order to write, what role does gender play in the production, consumption, and interpretation of texts, and to what extent do women comprise a distinct literary subculture. Interpretation of texts will be guided by feminist and gender theory, ways of reading that have emerged as important to literary studies over the last four decades.*

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|---|---|---|
| 0101 | Tyra Griffin<br>TuTh 9:30am - 10:45am | Seats (Total: 30)<br>HBK 1112 |

**WGSS263** **Introduction to Black Women's Studies**

*Cross-listed with: AAAS263. Credit only granted for: WMST263, AASP298I, WGSS263, AAAS263 or AASP263. Formerly: WMST263.*

*Interdisciplinary exploration of Black women, culture and society in the United States. Drawn primarily from the social sciences and history with complementary material from literature and the arts.*

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|---|---|---|
| 0101 | Zenzele Isoke<br>TuTh 12:30pm - 1:45pm | Seats (Total: 34)<br>HJP 2217 |

**WGSS269G** **Special Topics in Study Abroad II; Topics on Gender Studies**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**WGSS269I** **Special Topics in Study Abroad II; Social Problems: Women's Issues (In Indian Society)**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**WGSS269W** **Special Topics in Study Abroad II; Social Problems: Women's Issues Field Study**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**WGSS275** **World Literature by Women**

*Cross-listed with: CMLT275. Credit only granted for: WMST275, CMLT275 or WGSS275. Formerly: WMST275.*

*Comparative study of selected works by women writers of several countries, exploring points of intersection and divergence in women's literary representations.*

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|---|---|---|
| 0201 | Daniel Sidman<br>MW 2:00pm - 3:15pm | Seats (Total: 30)<br>TWS 1106 |

**WGSS277** **Careers in the Toy Industry: Gender, Trends, and Social Impact**

*Cross-listed with: ARHU277. Credit only granted for: WGSS277 or ARHU277.*

*Exposes students to diverse career options within the $114 billion global toy industry, and will explore the toy industry's relationships to gender and other areas of social impact. Students will learn how careers in play shape our society and about the countless careers in this fun, dynamic field for individuals with diverse, transferable skills. This class will share how emerging trends in content, technology, and approaches to identity and stereotypes shape the industry, its workforce, and its social impact. From Marketing, Accounting, Advocacy and Communications, to Design, Engineering, Law, Supply Chain and Entrepreneurship this is a constantly evolving industry that has the power to shape minds and our world through the power of play.*

| | | |
|---|---|---|
| 0101 | Genna Rosenberg<br>W 5:00pm - 5:50pm | Seats (Total: 40)<br>ONLINE |

**WGSS290** **Bodies in Contention**

*Credit only granted for: WMST298D or WGSS290. Formerly: WMST298D.*

*Explores the contributions of feminist scholarship in framing and resolving contemporary controversies concerning gendered bodies. It includes the ways in which knowledge about the human body has been shaped by cultural ideas of gender, race, sexuality and ability.*

| | | |
|---|---|---|
| 0101 | Jessica Mathiason<br>TuTh 11:00am - 12:15pm | Seats (Total: 32)<br>SQH 1121 |
| 0201 | Jessica Mathiason<br>TuTh 12:30pm - 1:45pm | Seats (Total: 32)<br>SQH 1121 |

**WGSS291** **Racialized Gender and Rebel Media**

*Credit only granted for: WGSS291 or WMST298N. Formerly: WMST298N.*

*An introduction to the interdisciplinary field of women's studies and an exploration of the ways in which media has been used as a platform for racial justice, feminist activism, and cultural transformation, with a principal focus on the expressions of women of color. The goals of the course are to explore how different forms of media shape the stories which circulate about race, femininities, masculinities, ethnicities, sexualities, religiosity, power and difference, and to examine how various media formats been used to disrupt dominant stories, to tell new stories, and to create differing understandings of citizenship.*

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|---|---|---|---|
| 0101 | Eva Hageman<br>MW 10:00am - 11:15am | Seats (Total: 34)<br>SQH 1101 | |

**WGSS298N** **The Politics of Sexuality in America: A Historical Approach**

*Cross-listed with: HIST289N. Credit only granted for: HIST289N or WGSS298N.*

*Why do particular issues about sexuality hold such an important place in American political debates? What animates these controversies and what can a historical perspective on these issues add to our understanding of modern sexual politics? This class explores the historical sexual politics that undergird contemporary debates concerning sexuality in America. It focuses on topics that garner significant public attention - Reproductive rights - LGBTQ rights - Sexting - and explores the histories that undergird Americans disagreements.*

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|---|---|---|---|
| 0101 | Clare Lyons<br>MW 11:00am - 11:50am<br>W 1:00pm - 1:50pm | Seats (Total: 23)<br>PLS 1140<br>KEY 0100 | <br><br>Discussion |
| 0102 | Clare Lyons<br>MW 11:00am - 11:50am<br>F 11:00am - 11:50am | Seats (Total: 23)<br>PLS 1140<br>KEY 0100 | <br><br>Discussion |
| 0103 | Clare Lyons<br>MW 11:00am - 11:50am<br>F 1:00pm - 1:50pm | Seats (Total: 23)<br>PLS 1140<br>KEY 0100 | <br><br>Discussion |

**WGSS301** **Introduction to Research in Gender, Race, and Queer Studies**

(Perm req)

*Restriction: Permission of the Harriet Tubman Department of Women, Gender, and Sexuality Studies; Must be enrolled in a Harriet Tubman Department of Women, Gender, and Sexuality Studies program. Credit only granted for: WMST301 or WGSS301. Formerly: WMST301.*

*Primarily a research skills-building course, focusing especially on interdisciplinary approaches to research. Encompasses basic library skills, conceptualizing a research question. The course is not designed to teach a specific research method but rather to as an introduction to a range of research methods commonly employed in feminist, critical race, and queer studies with some opportunity to begin to apply them. Considers the ethical dilemmas and political implications embedded in research projects.*

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| 0101 | Jocelyn Coates<br>TuTh 2:00pm - 3:15pm | Seats (Total: 15)<br>SQH 1123 | |

**WGSS302** **Feminist, Critical Race, and Queer Theories**

*Prerequisite: 6 credits in LGBT, WMST, WGSS or courses that are cross-listed with these. Credit only granted for: WMST302, WGSS302 or WMST400. Formerly: WMST302.*

*Introduces students to some of the major concepts in feminist, critical race, and queer theories. It examines the questions: What is theory? What forms does theory take? What is the relationship between theory and practice? What is the role of theory in political and social action? In art? In personal life? What does it mean to do theory?*

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| 0101 | Sydney Lewis | Seats (Total: 25) |
| | MW 10:00am - 11:15am | SQH 2120 |

**WGSS319D** **Workshops in Gender, Race, and Queer Studies; Disability Justice**

*Topics will change each semester but all workshops will be designed to have students think transdisciplinarily and interdisciplinarily about a specific topic or issue and to understand how differing approaches shape knowledge. Assignments within the workshops are aimed at students developing their skills in forms of presentation beyond the written essay, e.g. oral argument, digital or creative projects. Collaborative work must be central to all workshop courses; these collaborative activities do not preclude the possibility of individual research/writing assignments but the Workshops should emphasize conversation, debate, collaboration, and critique more so than the individually authored essay.*

The Disability Collective, a group of Black, brown, queer and trans activists, developed disability justice, an intersectional framework that examines disability and ableism as they relate to other forms of structural oppression. Using a disability justice lens we'll explore debates within academic disability studies, examine historical and contemporary disability movements and modes of organizing, and build a repertoire of skills to engage in direct action as well as social policy and technological innovation using principles of universal design. We will consider a range of social theories centering disabled standpoints: the social model of disability, feminist disability theories, disability critical race theory (DisCrit), and queer crip theory. We'll also explore what it means to live a fulfilling crip life by exploring disability justice within the domains of education, parenting, and sexuality particularly while navigating the mental health and criminal justice systems.

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| 0101 | Jessica Mathiason | Seats (Total: 30) |
| | TuTh 3:30pm - 4:45pm | SQH 1121 |

**WGSS325** **The Sociology of Gender**

*Prerequisite: 3 credits in SOCY courses. Cross-listed with: SOCY325. Credit only granted for: SOCY325, WMST325 or WGSS325. Formerly: WMST325.*

*Institutional bases of gender roles and gender inequality, cultural perspectives on gender, gender socialization, feminism, and gender-role change. Emphasis on contemporary American society.*

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| 0101 | Kalani Johnson | Seats (Total: 20) |
| | MW 3:30pm - 4:45pm | ASY 2115 |

**WGSS336** **Psychology of Women**

*Prerequisite: PSYC100. Cross-listed with: PSYC336. Credit only granted for: PSYC336, WMST336 or WGSS 336. Formerly: WMST336.*

*A study of the biology, life span development, socialization, personality, mental health, and special issues of women.*

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| 0101 | Monica Kearney | Seats (Total: 110) |
| | MW 11:00am - 11:50am<br>Class time/details on ELMs | BPS 1250<br>ONLINE |

**WGSS358** **Undergraduate Teaching Assistantship**

(Perm req)

*Students work under the supervision of a faculty mentor to assist with an undergraduate LGBT or WGSS course while also becoming conversant in feminist, critical race, and queer pedagogical debates and approaches.*

Restriction: Permission of ARHU-Women's Studies department. Repeatable to 9 credits. Students work under the supervision of a faculty mentor to assist with an undergraduate LGBT or WMST course while also becoming conversant in feminist, critical race, and queer pedagogical debates and approaches.

**Contact department for information to register for this course.**

**WGSS360** **Caribbean Women**

*Cross-listed with: AAAS361. Credit only granted for: WGSS360, WMST360, AAAS361 or AASP361. Formerly: WMST360.*

*An interdisciplinary analysis of the lives and experiences of women across the Caribbean region, through an examination of their roles in individual, national, social and cultural formations. Special emphasis on contemporary women's issues and organizations.*

Additionally for Fall 2024: Cross-listed with AASP361 and LACS348P. Credit only granted for WGSS360, AASP361, or LACS348P.

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| 0101 | Michelle Rowley | Seats (Total: 35) |
| | MW 10:00am - 11:15am | SQH 1105 |

**WGSS368** **Undergraduate WGSS Internship**

(Perm req)

*Undergraduate Internship in a position related to women, gender, and sexuality studies and overseen by a member of the WGSS faculty.*

Restriction: Permission of the Harriet Tubman Department of Women, Gender, and Sexuality Studies.

**Contact department for information to register for this course.**

**WGSS369G** **Special Topics in Study Abroad III; Gender and Post Socialist Transformation in Central Europe**

*Special topics course taken as part of an approved study abroad program.*

**Contact department for information to register for this course.**

**WGSS378** **Undergraduate Research and Creative Works Assistantship**

(Perm req)

*The Undergraduate Research Assistant provides an opportunity to develop a deep understanding of specific research methods and topics while involving the student in a professional role that requires ethical responsibility. The precise syllabus for the URA will be personalized to the student's interests and abilities, as well as to the specific research project and the Faculty Mentor's expectations. The student will meet with the Faculty Mentor prior to enrolling for a URA in order to determine the responsibilities and learning goals for the semester.*

Restriction: Permission of the Harriet Tubman Department of Women, Gender, and Sexuality Studies. Repeatable to 9 credits if content differs. Formerly: WMST378.

**Contact department for information to register for this course.**

**WGSS379J** **Topics in Women, Gender, and Sexuality Studies; Black Women in Twentieth Century America**

*Thematic exploration of a topic in women, gender, and sexuality studies.*

Cross-listed with HIST319X, AMST498D, and AASP398J. Credit only granted for HIST319X, WGSS379J, AMST498D, or AASP398J. Traces twentieth-century United States history from the perspective of Black women. We will center their diverse voices and experiences as we explore themes including family, work, activism, and cultural expression.

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| 0101 | Leigh Soares | Seats (Total: 30) |
| | TuTh 2:00pm - 3:15pm | TYD 1118 |

**WGSS379U** **Topics in Women, Gender, and Sexuality Studies; Angela Davis**

*Thematic exploration of a topic in women, gender, and sexuality studies.*

Cross-listed with AASP398U, AMST328B, and ENGL368F. Credit only granted for AASP398U, AMST328B, ENGL368F, and WGSS379U. This course explores the meaning and significance of Angela Davis work for thinking through issues of race, nation, class, gender, carceral culture, and transnational solidarity. Her life and work is set between theorizing histories of race, racism, class, and gender and political organizing and public intellectual work. We will examine all of these aspects by reading her work from its beginning and up through contemporary commentary on incarceration, Palestine, and related issues. The centerpiece of this course will be her study of African-American music in its Black feminist iteration, Blues Legacies and Black Feminism.

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| 0101 | John Drabinski | Seats (Total: 25) |
| | TuTh 9:30am - 10:45am | TLF 0110 |

**WGSS444** **Feminist Critical Theory**

*Prerequisite: WMST200, WGSS200, WMST250, WGSS250, or ENGL250. Cross-listed with: ENGL444. Credit only granted for: ENGL444, WMST444 or WGSS444. Formerly: WMST444.*

*Issues in contemporary feminist thought that have particular relevance to textual studies, such as theories of language, literature, culture, interpretation, and identity.*

**Contact department for information to register for this course.**

**WGSS489** **Individual Research in Gender, Race and Queer Studies**

*Allows students who wish to continue the research they began in WMST487 or WGSS487 to do so under the guidance of an individual faculty mentor. Each student taking this class will develop an individual syllabus based on the project on which they are working, with the goal of developing a work of scholarship specific to their interests that can serve as an entry point for graduate study or professional work.*

**Contact department for information to register for this course.**

**WGSS489A** **Individual Research in Gender, Race and Queer Studies; WGSS Honors Thesis Writing 1**

*Allows students who wish to continue the research they began in WMST487 or WGSS487 to do so under the guidance of an individual faculty mentor. Each student taking this class will develop an individual syllabus based on the project on which they are working, with the goal of developing a work of scholarship specific to their interests that can serve as an entry point for graduate study or professional work.*

**Contact department for information to register for this course.**

**WGSS489B** **Individual Research in Gender, Race and Queer Studies; WGSS Honors Thesis Writing 2**

*Allows students who wish to continue the research they began in WMST487 or WGSS487 to do so under the guidance of an individual faculty mentor. Each student taking this class will develop an individual syllabus based on the project on which they are working, with the goal of developing a work of scholarship specific to their interests that can serve as an entry point for graduate study or professional work.*

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| 2001 | Neel Ahuja<br>Contact instructor or department for details. | Seats (Total: 4) |
| 2701 | Shelbi Meissner<br>Contact instructor or department for details. | Seats (Total: 5) |

**WGSS497** **Professional Development**

*Prerequisite: 12 credits in LGBT, WMST or WGSS courses. Restriction: Must have completed a minimum of 75 credits. Credit only granted for: WMST497 or WGSS497. Formerly: WMST497.*

*To assist students in thinking about the next step post-undergraduate degree and to think long term about the importance of their WMST degree in lifelong career, personal, and political development. This course will provide students an opportunity to reflect upon where they are going beyond the B.A. and develop ways to communicate how their coursework and experiences at UMD have prepared them for the next step. The course will focus on the practicalities of resume writing, internship or job searches, etc. but also on the specific challenges/opportunities of translating interdisciplinary training to professional internship or beyond-the B.A. sites. Students may take this course in preparation for their internship (working to select an appropriate internship that can translate well to post-undergraduate aspirations) or they may take it post-internship as they determine their post-graduation steps.*

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| 0101 | Sydney Lewis | Seats (Total: 20) |
| | F 10:00am - 11:15am | ONLINE |

**WGSS498A** **Advanced Special Topics in Women, Gender, and Sexuality Studies; Community Interventions: Domestic Violence I**

*Advanced study of a thematic topic in women, gender, and sexuality studies.*

Restricted to Psychology or Women Studies majors only. Cross-listing with WGSS498A. Credit only granted for PSYC318D, WGSS498A, or WMST498A. Theories and researchrelated to domestic violence and interventions with abused womenwill bestudied, and students will think critically regarding ethical andmulticultural issues related to domestic violence. Community resources and strategies for ending domestic violence in the United States will be discussed.

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| 0101 | Karen O'Brien | Seats (Total: 35) |
| | MW 10:00am - 11:15am | PLS 1117 |

**WGSS498I** **Advanced Special Topics in Women, Gender, and Sexuality Studies; Asian American Women and Gender**

*Advanced study of a thematic topic in women, gender, and sexuality studies.*

Cross-listed with AAST424. Credit only granted for AAST498G, AAST422, or WGSS498I. Examines Asian/American cultural production along with theories of gender and sexuality in the field of Asian American Studies. We consider how Asian American femininities/masculinities are conceived and circulated, drawing from a diverse selection of twentieth-century and contemporary texts, films and images that connect Asian American bodies to ideas of absence, danger, inscrutability, hyper- or hypo-sexuality, and virulence. Beginning with early to mid-twentieth century representations, the course attends to theories that clarify the contested relationship between the East/West and Asia/U.S. Also examined are the methods through which bodies differentiated by sex, gender, and race are managed, surveilled, and rehabilitated, with close attention to the enduring legacies of American expansionism and conquest, anti-immigration policies in the U.S., and twentieth-century wars and occupations in Asia. The course engages Women of Color feminisms, queer theory, and disability studies.

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| 0101 | Jennifer Cho | Seats (Total: 20) |
| | TuTh 11:00am - 12:15pm | TWS 0201 |

**WGSS498L** **Advanced Special Topics in Women, Gender, and Sexuality Studies; Women in Israel**

*Advanced study of a thematic topic in women, gender, and sexuality studies.*

**Contact department for information to register for this course.**

**WGSS498Y** **Advanced Special Topics in Women, Gender, and Sexuality Studies; Dickinson, Erotics, Poetics, Biopics: Some (Queer) Ways We Read Poetry**

*Advanced study of a thematic topic in women, gender, and sexuality studies.*

Prerequisite: Two English courses in literature; or permission of ARHU-English department. Cross-listing with ENGL439D and LGBT448Y. Credit only granted for ENGL439D, LGBT448Y, WGSS498Y, or WMST498Y.

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| 0101 | Martha Nell Smith<br>TuTh 12:30pm - 1:45pm | Seats (Total: 20)<br>TWS 1313 |

**WGSS499** **Independent Study**

(Perm req)

*Research and writing or specific readings on a topic selected by the student and supervised by a faculty member of the Women's Studies Department.*

**Contact department for information to register for this course.**

**WGSS601** **Theoretical Foundations in Women, Gender, and Sexuality Studies**

*Prerequisite: WMST400 or WGSS302; or students who have taken courses with comparable content may contact the department. Restriction: Must be in the Women, Gender and Sexuality Studies doctoral or graduate certificate program. Credit only granted for: WMST601 or WGSS601. Formerly: WMST601.*

*Examines fundamental concepts in the interdisciplinary field of Women, Gender, and Sexuality Studies. Engages intersectionality as a critical analytic and set of responses to structural power and domination. Provides students with a theoretical foundation for understanding gender, race, and sexuality as analytic categories operating in transnational and global contexts and intersecting with other categories of difference.*

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| 0101 | Sayan Bhattacharya<br>Th 3:30pm - 6:00pm | Seats (Total: 15)<br>ARC 1123 |

**WGSS618** **Feminist Pedagogy**

*Examines the higher education classroom from a feminist perspective through theory and analysis. Students are graduate teaching assistants with the Women's Studies department.*

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| 0101 | Alexis Lothian<br>M 1:00pm - 3:30pm | Seats (Total: 5)<br>SQH 4103 |

**WGSS619** **Women, Gender, and Sexuality Studies Teaching Practicum**

(Perm req)

*Provides WGSS graduate teaching assistants with ongoing regular faculty supervision during the semesters the students are teaching courses in the department.*

**Contact department for information to register for this course.**

**WGSS628** **Women, Gender, and Sexuality Studies Colloquium**

*An intensive advanced exploration of current problems and issues in women, gender, and sexuality studies.*

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| 0101 | Zenzele Isoke<br>W 4:00pm - 5:45pm | Seats (Total: 12)<br>SQH 4116 |

**WGSS698A** **Special Topics in Women, Gender, and Sexuality Studies; Fascisms**

*Advanced work in selected topics in Women, Gender, and Sexuality Studies*

Restriction: Must be in the Women, Gender and Sexuality Studies doctoral or graduate certificate program. This seminar asks whether and how 'fascism' and 'anti-fascism' might be useful terms for social, historical, and political analysis. From the association of fascism with police violence and colonial domination to the characterization of contemporary anti-immigrant discourses as fascistic, there have been a variety of late twentieth and early twenty-first century invocations of fascism as a rising aspect of political mobilization around the world. What definitions of fascism have been useful to scholars of historical and present-day political movements? What understandings of the body, the human, and the state do the analysis of 'fascism' allow or obscure? How have different anti-fascist mobilizations intersected with (or failed to intersect with) other related social movements?

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| 0101 | Neel Ahuja | Seats (Total: 14) |
| | Tu 11:00am - 1:30pm | SQH 4103 |

**WGSS698E** **Special Topics in Women, Gender, and Sexuality Studies; Race and Media Theory and Practice**

(Perm req)

*Advanced work in selected topics in Women, Gender, and Sexuality Studies*

Restriction: Permission of instructor. Cross-listed with WMST698E. Credit only granted for AMST628C or WMST698E. This class looks at foundational and new interdisciplinary scholarship on race and media. The course will explore topics such as media production, distribution, markets, representation, and audiences.

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| 0101 | Eva Hageman | Seats (Total: 15) |
| | M 4:00pm - 6:40pm | SQH 4116 |

**WGSS699** **Independent Study**

(Perm req)

*Research and writing on specific readings on a topic selected by the student which is approved and supervised by a faculty member of the Harriet Tubman Department of Women, Gender, and Sexuality Studies.*

**Contact department for information to register for this course.**

**WGSS709** **Directed Independent Reading for Major Field Exam**

(Perm req)

*Directed reading in preparation for Major Field Exam. In consultation with their advisors, students identify, analyze, critique and synthesize material relevant to their major fields of inquiry. Grading will be based on combinations of oral performance in the bi-weekly meetings, production of annotated bibliographies and synthetic papers.*

**Contact department for information to register for this course.**

**WGSS799** **Masters Thesis Research**

(Perm req)

*Master's Thesis Research*

**Contact department for information to register for this course.**

**WGSS898** **Pre-Candidacy Research**

(Perm req)

*Pre-Candidacy Research*

**Contact department for information to register for this course.**

**WGSS899** **Doctoral Dissertation Research**

(Perm req)

*Doctoral Dissertation Research*

**Contact department for information to register for this course.**

# XPER xFoundry Fall 2024

**XPER444** **Xcelerate: Bringing Your Idea to Life**

(Perm req)

*Prerequisite: XPER433. Restriction: This will be a BPO course. Only students accepted in the Xperience academic program will be eligible to take this course.*

*Students will work in teams to design, develop, and iterate on solutions for the grand challenge problem. This course aims to equip students with the strategic skills essential for the successful design and implementation of effective solutions. They will explore methodologies for validating the feasibility and viability of proposed solutions, with a strong emphasis on conducting thorough customer feedback analysis to refine and validate product concepts. By the end of this course, students will have a working and tested prototype of their solution, showcasing their applied knowledge and practical skills in addressing complex challenges. This is the second course in xFoundry's signature academic program, Xperience: xfoundry.umd.edu/xperience*

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| 0101 | Nicole Coomber, TJ Rainsford | Seats (Total: 40) |
| | Th 3:30pm - 6:30pm | ESJ 2101 |